

LAMPIRAN

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Lampiran 1: Coding Sensor

```
#include <Servo.h> // Include Servo library
#define sensorIR A0 // IR untuk Relay (Pompa)
Servo myservo; // Declare Servo Object
const byte ir0 = 0; // IR untuk Servo (Sabun)
const byte rel = 6; // Declare port Relay
unsigned long startSabun; // Start timer Event-1 (Sabun cuci tangan)
unsigned long startPompa; // Start timer Event-2 (Pompa Air)
int sensorValue,cm,cm2; // Data input khusus IR SHARP
int inter_Sabun = 500; // Delay untuk servo
int inter_Pompa = 500; // Off-Timer untuk Pompa Air
int trigUS1 = 8; // US untuk Relay (Pompa)
int echoUS1 = 9; // US untuk Relay (Pompa)
int trigUS2 = 7; // US untuk Relay (Pompa)
int echoUS2 = 6; // US untuk Relay (Pompa)
long duration; // Jenis data untuk waktu
int distance; // Jenis data untuk jarak
int LED = 13; // Lampu LED
int x = pow; // Tegangan keluar sensor

void setup()
{
  // Inisiasi Input/Output PIN
  Serial.begin(9600);
  pinMode(ir0, INPUT);
  pinMode(rel, OUTPUT);
```

```

pinMode(trigUS1, OUTPUT);
pinMode(echoUS1, INPUT);
pinMode(trigUS2, OUTPUT);
pinMode(echoUS2, INPUT);
myservo.attach(5); // Mulai kirim sinyal PWM ke Servo

// Kalibrasi Servo. Sabun awas kepencet
myservo.write(10);
delay(200);
myservo.write(90);
delay(200);
myservo.write(10);
}

void loop() {

// Event: Pompa Air
// Untuk IR
sensorValue = analogRead(sensorIR); //Input data analog
cm = -0.0001*x*x*x+0.0112*x*x-0.3*x+3.5; // Perhitungan bacaan
sensor

delay (1000);
Serial.print("Distance :");
Serial.println(cm);
if (cm <= 10) //Memasukkan batasan Jarak Nyala
{
digitalWrite(rel, LOW);

```

```

}
else if(cm > 10) //Memasukkan batasan Jarak Mati
{
    digitalWrite(rel, HIGH);
}

// Untuk US
digitalWrite(trigUS1, LOW);
delayMicroseconds(2);
digitalWrite(trigUS1, HIGH);
delayMicroseconds(10);
digitalWrite(trigUS1, LOW);
duration = pulseIn(echoUS1, HIGH);
distance = duration / 29 / 2;
Serial.println(distance);
if (distance <= 10) //Memasukkan batasan Jarak Nyala
{
    digitalWrite(rel, LOW);
}
else if(distance > 10) //Memasukkan batasan Jarak Mati
{
    digitalWrite(rel, HIGH);
}

/// Event: Sabun Cuci Tangan
digitalWrite(trigUS2, LOW);
delayMicroseconds(2);

```

```
digitalWrite(trigUS2, HIGH);
delayMicroseconds(10);
digitalWrite(trigUS2, LOW);
duration = pulseIn(echoUS2, HIGH);
distance = duration / 29 / 2;
Serial.println(distance);
if (distance <= 10){
  myservo.write(90);
  startSabun = millis();
  LED = HIGH;
}else if (distance > 10){
  if (millis() >= (startSabun + inter_Sabun)){
    myservo.write(10);
    LED = LOW;
  }
}
}
```

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Lampiran 2: Dokumentasi Kegiatan



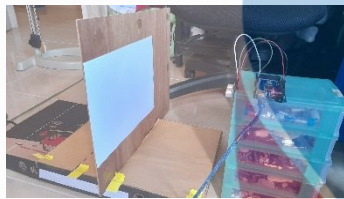
Pengujian Tangan dengan US



Pengujian Sarung Tangan dengan US



Pengujian Kaca dengan US



Pengujian Kertas dengan US



Pengujian Kertas Tangan dengan IR



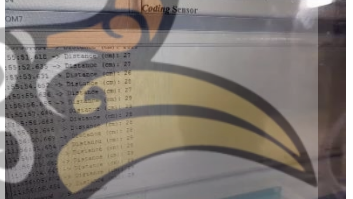
Pengujian Kaca dengan IR



Pengujian Sarung Tangan dengan IR



Pengujian Tangan dengan IR



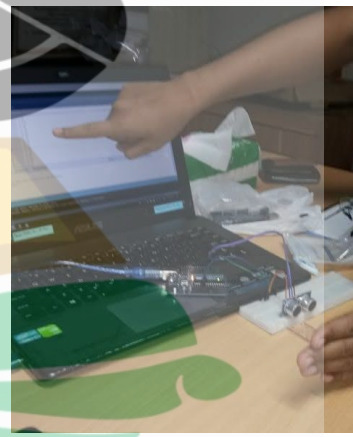
Hasil Data Bacaan



Rangkaian Kelistrikan Pada AHWM



Pembersihan AHWM



Pengkalibrasian Sensor

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Lampiran 3: *Data Sheet Uji Sensor*

Data Sheet Ultrasonic 20 Cm Terhadap Tangan

Data 20 cm	Percobaan Ke-	y	x
1 13:46:39.571 .	1	20	20
2 13:46:45.328 .	2	20	20
3 13:46:51.037 .	3	20	20
4 13:46:56.794 .	4	20	20
5 13:47:02.503 .	5	20	20
6 13:47:08.260 .	6	20	20
7 13:47:13.969 .	7	20	20
8 13:47:19.726 .	8	20	20
9 13:47:25.435 .	9	20	20
10 13:47:31.145 .	10	20	20
11 13:47:36.901 .	11	20	20
12 13:47:42.611 .	12	20	20
13 13:47:48.367 .	13	20	20
14 13:47:54.077 .	14	20	20
15 13:47:59.833 .	15	20	20
16 13:48:05.543 .	16	20	20
17 13:48:11.284 .	17	20	20
18 13:48:16.993 .	18	20	20
19 13:48:22.750 .	19	20	20
20 13:48:28.459 .	20	20	20
21 13:48:34.216 .	21	20	20
22 13:48:39.926 .	22	20	20
23 13:48:45.682 .	23	20	20
24 13:48:51.392 .	24	20	20
25 13:48:57.148 .	25	20	20
26 13:49:02.858 .	26	20	20
27 13:49:08.567 .	27	20	20
28 13:49:14.324 .	28	20	20
29 13:49:20.033 .	29	20	20
30 13:49:25.790 .	30	20	20
31 13:49:31.499 .	31	20	20
32 13:49:37.256 .	32	20	20
33 13:49:42.965 .	33	20	20
34 13:49:48.722 .	34	20	20
35 13:49:54.431 .	35	20	20
36 13:50:00.141 .	36	20	20
37 13:50:05.897 .	37	20	20
38 13:50:11.607 .	38	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
39	13:50:17.363 .	39	20	20
40	13:50:23.073 .	40	20	20
41	13:50:28.829 .	41	20	20
42	13:50:34.539 .	42	20	20
43	13:50:40.295 .	43	20	20
44	13:50:46.005 .	44	20	20
45	13:50:51.761 .	45	20	20
46	13:50:57.471 .	46	20	20
47	13:51:03.181 .	47	20	20
48	13:51:08.937 .	48	20	20
49	13:51:14.647 .	49	20	20
50	13:51:20.403 .	50	20	20
51	13:51:26.113 .	51	20	20
52	13:51:31.869 .	52	20	20
53	13:51:37.579 .	53	20	20
54	13:51:43.335 .	54	20	20
55	13:51:49.045 .	55	20	20
56	13:51:54.754 .	56	20	20
57	13:52:00.511 .	57	20	20
58	13:52:06.220 .	58	20	20
59	13:52:11.977 .	59	20	20
60	13:52:17.686 .	60	20	20
61	13:52:23.443 .	61	20	20
62	13:52:29.152 .	62	20	20
63	13:52:34.909 .	63	20	20
64	13:52:40.618 .	64	20	20
65	13:52:46.375 .	65	20	20
66	13:52:52.084 .	66	20	20
67	13:52:57.794 .	67	20	20
68	13:53:03.550 .	68	20	20
69	13:53:09.260 .	69	20	20
70	13:53:15.016 .	70	20	20
71	13:53:20.726 .	71	20	20
72	13:53:26.482 .	72	20	20
73	13:53:32.192 .	73	20	20
74	13:53:37.948 .	74	20	20
75	13:53:43.658 .	75	20	20
76	13:53:49.368 .	76	20	20
77	13:53:55.124 .	77	20	20
78	13:54:00.834 .	78	20	20
79	13:54:06.590 .	79	20	20
80	13:54:12.300 .	80	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
81	13:54:18.056 .	81	20	20
82	13:54:23.766 .	82	20	20
83	13:54:29.522 .	83	20	20
84	13:54:35.232 .	84	20	20
85	13:54:40.988 .	85	20	20
86	13:54:46.698 .	86	20	20
87	13:54:52.407 .	87	20	20
88	13:54:58.164 .	88	20	20
89	13:55:03.873 .	89	20	20
90	13:55:09.630 .	90	20	20
91	13:55:15.339 .	91	20	20
92	13:55:21.096 .	92	20	20
93	13:55:26.805 .	93	20	20
94	13:55:32.562 .	94	20	20
95	13:55:38.271 .	95	20	20
96	13:55:43.981 .	96	20	20
97	13:55:49.737 .	97	20	20
98	13:55:55.447 .	98	20	20
99	13:56:01.203 .	99	20	20
100	13:56:06.913 .	100	20	20

Data Sheet Ultrasonic 30 Cm Terhadap Tangan

Data 30 cm		Percobaan	y	x
		Ke-		
1	13:56:12.670 .	1	30	30
2	13:56:18.379 .	2	30	30
3	13:56:24.136 .	3	30	30
4	13:56:29.845 .	4	30	30
5	13:56:35.602 .	5	30	30
6	13:56:41.311 .	6	30	30
7	13:56:47.021 .	7	30	30
8	13:56:52.793 .	8	30	30
9	13:56:58.502 .	9	30	30
10	13:57:04.212 .	10	30	30
11	13:57:09.968 .	11	30	30
12	13:57:15.678 .	12	30	30
13	13:57:21.434 .	13	30	30
14	13:57:27.144 .	14	30	30
15	13:57:32.900 .	15	30	30
16	13:57:38.610 .	16	30	30
17	13:57:44.366 .	17	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
18	13:57:50.076 .	18	30	30
19	13:57:55.832 .	19	30	30
20	13:58:01.542 .	20	30	30
21	13:58:07.252 .	21	30	30
22	13:58:13.008 .	22	30	30
23	13:58:18.718 .	23	30	30
24	13:58:24.474 .	24	30	30
25	13:58:30.184 .	25	30	30
26	13:58:35.940 .	26	30	30
27	13:58:41.650 .	27	30	30
28	13:58:47.406 .	28	30	30
29	13:58:53.116 .	29	30	30
30	13:58:58.872 .	30	30	30
30	13:59:04.582 .	31	30	30
32	13:59:10.291 .	32	30	30
33	13:59:16.048 .	33	30	30
34	13:59:21.757 .	34	30	30
35	13:59:27.514 .	35	30	30
36	13:59:33.223 .	36	30	30
37	13:59:38.980 .	37	30	30
38	13:59:44.689 .	38	30	30
39	13:59:50.446 .	39	30	30
40	13:59:56.156 .	40	30	30
41	14:00:01.865 .	41	30	30
42	14:00:07.622 .	42	30	30
43	14:00:13.331 .	43	30	30
44	14:00:19.088 .	44	30	30
45	14:00:24.797 .	45	30	30
46	14:00:30.554 .	46	30	30
47	14:00:36.263 .	47	30	30
48	14:00:42.020 .	48	30	30
49	14:00:47.729 .	49	30	30
50	14:00:53.439 .	50	30	30
51	14:00:59.195 .	51	30	30
52	14:01:04.905 .	52	30	30
53	14:01:10.661 .	53	30	30
54	14:01:16.371 .	54	30	30
55	14:01:22.127 .	55	30	30
56	14:01:27.837 .	56	30	30
57	14:01:33.593 .	57	30	30
58	14:01:39.303 .	58	30	30
59	14:01:45.059 .	59	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
60	14:01:50.769 .	60	30	30
61	14:01:56.525 .	61	30	30
62	14:02:02.235 .	62	30	30
63	14:02:07.945 .	63	30	30
64	14:02:13.701 .	64	30	30
65	14:02:19.411 .	65	30	30
66	14:02:25.167 .	66	30	30
67	14:02:30.877 .	67	30	30
68	14:02:36.633 .	68	30	30
69	14:02:42.343 .	69	30	30
70	14:02:48.099 .	70	30	30
71	14:02:53.809 .	71	30	30
72	14:02:59.518 .	72	30	30
73	14:03:05.275 .	73	30	30
74	14:03:11.000 .	74	30	30
75	14:03:16.725 .	75	30	30
76	14:03:22.481 .	76	30	30
77	14:03:28.191 .	77	30	30
78	14:03:33.901 .	78	30	30
79	14:03:39.657 .	79	30	30
80	14:03:45.367 .	80	30	30
81	14:03:51.123 .	81	30	30
82	14:03:56.833 .	82	30	30
83	14:04:02.589 .	83	30	30
84	14:04:08.299 .	84	30	30
85	14:04:14.055 .	85	30	30
86	14:04:19.765 .	86	30	30
87	14:04:25.521 .	87	30	30
88	14:04:31.231 .	88	30	30
89	14:04:36.940 .	89	30	30
90	14:04:42.697 .	90	30	30
91	14:04:48.406 .	91	30	30
92	14:04:54.163 .	92	30	30
93	14:04:59.872 .	93	30	30
94	14:05:05.629 .	94	30	30
95	14:05:11.338 .	95	30	30
96	14:05:17.095 .	96	30	30
97	14:05:22.804 .	97	30	30
98	14:05:28.561 .	98	30	30
99	14:05:34.271 .	99	30	30
100	14:05:39.980 .	100	30	30

Data Sheet Ultrasonic 40 Cm Terhadap Tangan

	Data 40 cm	Percobaan Ke-	y	x
1	14:05:45.737 .	1	40	40
2	14:05:51.446 .	2	40	40
3	14:05:57.203 .	3	40	40
4	14:06:02.912 .	4	40	40
5	14:06:08.669 .	5	40	40
6	14:06:14.378 .	6	40	40
7	14:06:20.135 .	7	40	40
8	14:06:25.844 .	8	40	40
9	14:06:31.601 .	9	40	40
10	14:06:37.310 .	10	40	40
11	14:06:43.020 .	11	40	40
12	14:06:48.776 .	12	40	40
13	14:06:54.486 .	13	40	40
14	14:07:00.242 .	14	40	40
15	14:07:05.952 .	15	40	40
16	14:07:11.693 .	16	40	40
17	14:07:17.402 .	17	40	40
18	14:07:23.159 .	18	40	40
19	14:07:28.868 .	19	40	40
20	14:07:34.625 .	20	40	40
21	14:07:40.334 .	21	40	40
22	14:07:46.091 .	22	40	40
23	14:07:51.800 .	23	40	40
24	14:07:57.557 .	24	40	40
25	14:08:03.266 .	25	40	40
26	14:08:09.023 .	26	40	40
27	14:08:14.732 .	27	40	40
28	14:08:20.442 .	28	40	40
29	14:08:26.198 .	29	40	40
30	14:08:31.908 .	30	40	40
31	14:08:37.664 .	31	40	40
32	14:08:43.374 .	32	40	40
33	14:08:49.130 .	33	40	40
34	14:08:54.840 .	34	40	40
35	14:09:00.596 .	35	40	40
36	14:09:06.306 .	36	40	40
37	14:09:12.016 .	37	40	40
38	14:09:17.772 .	38	40	40
39	14:09:23.482 .	39	40	40
40	14:09:29.238 .	40	40	40
41	14:09:34.948 .	41	40	40

Data 40 cm		Percobaan	y	x
		Ke-		
42	14:09:40.704 .	42	40	40
43	14:09:46.414 .	43	40	40
44	14:09:52.170 .	44	40	40
45	14:09:57.880 .	45	40	40
46	14:10:03.636 .	46	40	40
47	14:10:09.346 .	47	40	40
48	14:10:15.055 .	48	40	40
49	14:10:20.812 .	49	40	40
50	14:10:26.521 .	50	40	40
51	14:10:32.278 .	51	40	40
52	14:10:37.987 .	52	40	40
53	14:10:43.744 .	53	40	40
54	14:10:49.453 .	54	40	40
55	14:10:55.210 .	55	40	40
56	14:11:00.919 .	56	40	40
57	14:11:06.676 .	57	40	40
58	14:11:12.385 .	58	40	40
59	14:11:18.095 .	59	40	40
60	14:11:23.852 .	60	40	40
61	14:11:29.561 .	61	40	40
62	14:11:35.318 .	62	40	40
63	14:11:41.027 .	63	40	40
64	14:11:46.784 .	64	40	40
65	14:11:52.493 .	65	40	40
66	14:11:58.250 .	66	40	40
67	14:12:03.959 .	67	40	40
68	14:12:09.669 .	68	40	40
69	14:12:15.425 .	69	40	40
70	14:12:21.135 .	70	40	40
71	14:12:26.891 .	71	40	40
72	14:12:32.601 .	72	40	40
73	14:12:38.357 .	73	40	40
74	14:12:44.067 .	74	40	40
75	14:12:49.823 .	75	40	40
76	14:12:55.533 .	76	40	40
77	14:13:01.289 .	77	40	40
78	14:13:06.999 .	78	40	40
79	14:13:12.709 .	79	40	40
80	14:13:18.465 .	80	40	40
81	14:13:24.175 .	81	40	40
82	14:13:29.931 .	82	40	40
83	14:13:35.641 .	83	40	40

Data 40 cm		Percobaan	y	x
		Ke-		
84	14:13:41.397 .	84	40	40
85	14:13:47.107 .	85	40	40
86	14:13:52.863 .	86	40	40
87	14:13:58.573 .	87	40	40
88	14:14:04.329 .	88	40	40
89	14:14:10.039 .	89	40	40
90	14:14:15.748 .	90	40	40
91	14:14:21.505 .	91	40	40
92	14:14:27.214 .	92	40	40
93	14:14:32.971 .	93	40	40
94	14:14:38.680 .	94	40	40
95	14:14:44.421 .	95	40	40
96	14:14:50.131 .	96	40	40
97	14:14:55.887 .	97	40	40
98	14:15:01.597 .	98	40	40
99	14:15:07.353 .	99	40	40
100	14:15:13.063 .	100	40	40

Data Sheet Ultrasonic 20 Cm Terhadap Sarung Tangan

Data 20 cm		Percobaan	y	x
		Ke-		
1	14:15:18.819 .	1	20	20
2	14:15:24.529 .	2	20	20
3	14:15:30.285 .	3	20	20
4	14:15:35.995 .	4	20	20
5	14:15:41.751 .	5	20	21
6	14:15:47.461 .	6	20	20
7	14:15:53.170 .	7	20	20
8	14:15:58.927 .	8	20	20
9	14:16:04.636 .	9	20	20
10	14:16:10.393 .	10	20	21
11	14:16:16.102 .	11	20	20
12	14:16:21.859 .	12	20	20
13	14:16:27.568 .	13	20	20
14	14:16:33.325 .	14	20	20
15	14:16:39.034 .	15	20	21
16	14:16:44.744 .	16	20	20
17	14:16:50.500 .	17	20	20
18	14:16:56.210 .	20	20	20
19	14:17:01.967 .	19	20	20
20	14:17:07.676 .	20	20	21

Data 20 cm		Percobaan	y	x
		Ke-		
21	14:17:13.433 .	21	20	20
22	14:17:19.142 .	22	20	20
23	14:17:24.899 .	23	20	20
24	14:17:30.608 .	24	20	20
25	14:17:36.365 .	25	20	20
26	14:17:42.074 .	26	20	21
27	14:17:47.784 .	27	20	20
28	14:17:53.540 .	28	20	20
29	14:17:59.250 .	29	20	20
30	14:18:05.006 .	30	20	20
31	14:18:10.716 .	31	20	20
32	14:18:16.472 .	32	20	21
33	14:18:22.182 .	33	20	20
34	14:18:27.938 .	34	20	20
35	14:18:33.648 .	35	20	20
36	14:18:39.404 .	36	20	20
37	14:18:45.114 .	37	20	21
38	14:18:50.824 .	38	20	20
39	14:18:56.580 .	39	20	20
40	14:19:02.290 .	40	20	20
41	14:19:08.046 .	41	20	20
42	14:19:13.756 .	42	20	21
43	14:19:19.512 .	43	20	20
44	14:19:25.222 .	44	20	20
45	14:19:30.978 .	45	20	20
46	14:19:36.688 .	46	20	20
47	14:19:42.397 .	47	20	21
48	14:19:48.154 .	48	20	20
49	14:19:53.863 .	49	20	20
50	14:19:59.620 .	50	20	20
51	14:20:05.329 .	51	20	20
52	14:20:11.086 .	52	20	20
53	14:20:16.795 .	53	20	21
54	14:20:22.552 .	54	20	20
55	14:20:28.261 .	55	20	20
56	14:20:34.018 .	56	20	20
57	14:20:39.727 .	57	20	20
58	14:20:45.437 .	58	20	20
59	14:20:51.193 .	59	20	21
60	14:20:56.903 .	60	20	20
61	14:21:02.659 .	61	20	20
62	14:21:08.369 .	62	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
63	14:21:14.125 .	63	20	20
64	14:21:19.835 .	64	20	21
65	14:21:25.591 .	65	20	20
66	14:21:31.301 .	66	20	20
67	14:21:37.011 .	67	20	20
68	14:21:42.767 .	68	20	20
69	14:21:48.477 .	69	20	21
70	14:21:54.233 .	70	20	20
71	14:21:59.943 .	71	20	20
72	14:22:05.699 .	72	20	20
73	14:22:11.409 .	73	20	20
74	14:22:17.165 .	74	20	20
75	14:22:22.875 .	75	20	21
76	14:22:28.631 .	76	20	20
77	14:22:34.341 .	77	20	20
78	14:22:40.050 .	78	20	20
79	14:22:45.807 .	79	20	20
80	14:22:51.516 .	80	20	20
81	14:22:57.273 .	81	20	21
82	14:23:02.982 .	82	20	20
83	14:23:08.739 .	83	20	20
84	14:23:14.448 .	84	20	20
85	14:23:20.205 .	85	20	20
86	14:23:25.914 .	86	20	21
87	14:23:31.671 .	87	20	20
88	14:23:37.380 .	88	20	20
89	14:23:43.090 .	89	20	20
90	14:23:48.846 .	90	20	20
91	14:23:54.556 .	91	20	20
92	14:24:00.312 .	92	20	21
93	14:24:06.022 .	93	20	20
94	14:24:11.778 .	94	20	20
95	14:24:17.488 .	95	20	20
96	14:24:23.244 .	96	20	20
97	14:24:28.954 .	97	20	20
98	14:24:34.664 .	98	20	21
99	14:24:40.420 .	99	20	20
100	14:24:46.130 .	100	20	20

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Data Sheet Ultrasonic 30 Cm Terhadap Sarung Tangan

	Data 30 cm	Percobaan Ke-	y	x
1	14:24:51.886 .	1	30	31
2	14:24:57.596 .	2	30	30
3	14:25:03.352 .	3	30	30
4	14:25:09.062 .	4	30	30
5	14:25:14.818 .	5	30	30
6	14:25:20.528 .	6	30	30
7	14:25:26.284 .	7	30	30
8	14:25:31.994 .	8	30	31
9	14:25:37.703 .	9	30	30
10	14:25:43.460 .	10	30	30
11	14:25:49.169 .	11	30	30
12	14:25:54.926 .	12	30	30
13	14:26:00.635 .	13	30	30
14	14:26:06.392 .	14	30	30
15	14:26:12.101 .	15	30	31
16	14:26:17.858 .	16	30	30
17	14:26:23.567 .	17	30	30
18	14:26:29.277 .	18	30	30
19	14:26:35.034 .	19	30	30
20	14:26:40.743 .	20	30	30
21	14:26:46.500 .	21	30	31
22	14:26:52.209 .	22	30	30
23	14:26:57.966 .	23	30	30
24	14:27:03.675 .	24	30	30
25	14:27:09.432 .	25	30	30
26	14:27:15.141 .	26	30	30
27	14:27:20.898 .	27	30	31
28	14:27:26.607 .	28	30	30
29	14:27:32.317 .	29	30	30
30	14:27:38.073 .	30	30	30
31	14:27:43.783 .	31	30	30
32	14:27:49.539 .	32	30	30
33	14:27:55.249 .	33	30	30
34	14:28:01.005 .	34	30	31
35	14:28:06.715 .	35	30	30
36	14:28:12.471 .	36	30	30
37	14:28:18.181 .	37	30	30
38	14:28:23.891 .	38	30	30
39	14:28:29.647 .	39	30	30
40	14:28:35.357 .	40	30	31
41	14:28:41.113 .	41	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
42	14:28:46.823 .	42	30	30
43	14:28:52.579 .	43	30	30
44	14:28:58.289 .	44	30	30
45	14:29:04.045 .	45	30	30
46	14:29:09.755 .	46	30	30
47	14:29:15.511 .	47	30	31
48	14:29:21.221 .	48	30	30
49	14:29:26.930 .	49	30	30
50	14:29:32.687 .	50	30	30
51	14:29:38.396 .	51	30	30
52	14:29:44.153 .	52	30	30
53	14:29:49.862 .	53	30	31
54	14:29:55.619 .	54	30	30
55	14:30:01.328 .	55	30	30
56	14:30:07.085 .	56	30	30
57	14:30:12.794 .	57	30	30
58	14:30:18.551 .	58	30	30
59	14:30:24.260 .	59	30	30
60	14:30:29.970 .	60	30	31
61	14:30:35.726 .	61	30	30
62	14:30:41.436 .	62	30	30
63	14:30:47.192 .	63	30	30
64	14:30:52.902 .	64	30	30
65	14:30:58.658 .	65	30	30
66	14:31:04.368 .	66	30	31
67	14:31:10.124 .	67	30	30
68	14:31:15.834 .	68	30	30
69	14:31:21.544 .	69	30	30
70	14:31:27.300 .	70	30	30
71	14:31:33.010 .	71	30	30
72	14:31:38.766 .	72	30	31
73	14:31:44.476 .	73	30	30
74	14:31:50.232 .	74	30	30
75	14:31:55.942 .	75	30	30
76	14:32:01.698 .	76	30	30
77	14:32:07.408 .	77	30	30
78	14:32:13.164 .	78	30	31
79	14:32:18.874 .	79	30	30
80	14:32:24.583 .	80	30	30
81	14:32:30.340 .	81	30	30
82	14:32:36.049 .	82	30	30
83	14:32:41.806 .	83	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
84	14:32:47.515 .	84	30	31
85	14:32:53.272 .	85	30	30
86	14:32:58.981 .	86	30	30
87	14:33:04.738 .	87	30	30
88	14:33:10.447 .	88	30	30
89	14:33:16.157 .	89	30	30
90	14:33:21.913 .	90	30	30
91	14:33:27.623 .	91	30	31
92	14:33:33.379 .	92	30	30
93	14:33:39.089 .	93	30	30
94	14:33:44.845 .	94	30	30
95	14:33:50.555 .	95	30	30
96	14:33:56.311 .	96	30	30
97	14:34:02.021 .	97	30	31
98	14:34:07.778 .	98	30	30
99	14:34:13.487 .	99	30	30
100	14:34:19.197 .	100	30	30

Data Sheet Ultrasonic 40 Cm Terhadap Sarung Tangan

Data 40 cm		Percobaan	y	x
		Ke-		
1	14:34:24.953 .	1	40	40
2	14:34:30.663 .	2	40	40
3	14:34:36.419 .	3	40	41
4	14:40:14.763 .	4	40	40
5	14:40:20.353 .	5	40	40
6	14:40:26.063 .	6	40	40
7	14:40:31.819 .	7	40	40
8	14:40:37.529 .	8	40	41
9	14:40:43.285 .	9	40	40
10	14:40:48.995 .	10	40	40
11	14:40:54.751 .	11	40	40
12	14:41:00.461 .	12	40	40
13	14:41:06.170 .	13	40	41
14	14:41:11.927 .	14	40	40
15	14:41:17.636 .	15	40	40
16	14:41:23.393 .	16	40	40
17	14:41:29.102 .	17	40	40
18	14:41:34.859 .	18	40	41
19	14:41:40.568 .	19	40	40
20	14:41:46.325 .	20	40	40

Data 40 cm		Percobaan	y	x
		Ke-		
21	14:41:52.034 .	21	40	40
22	14:41:57.744 .	22	40	40
23	14:42:03.500 .	23	40	41
24	14:42:09.210 .	24	40	40
25	14:42:14.951 .	25	40	40
26	14:42:20.707 .	26	40	40
27	14:42:26.417 .	27	40	40
28	14:42:32.127 .	28	40	41
29	14:42:37.883 .	29	40	40
30	14:42:43.593 .	30	40	40
31	14:42:49.349 .	31	40	40
32	14:42:55.059 .	32	40	40
33	14:43:00.815 .	33	40	41
34	14:43:06.525 .	34	40	40
35	14:43:12.281 .	35	40	40
36	14:43:17.991 .	36	40	40
37	14:43:23.747 .	37	40	40
38	14:43:29.457 .	40	40	41
39	14:43:35.166 .	39	40	40
40	14:43:40.923 .	40	40	40
41	14:43:46.632 .	41	40	40
42	14:43:52.389 .	40	40	40
43	14:43:58.098 .	43	40	41
44	14:44:03.855 .	44	40	40
45	14:44:09.564 .	45	40	40
46	14:44:15.321 .	46	40	40
47	14:44:21.030 .	47	40	40
48	14:44:26.740 .	48	40	41
49	14:44:32.496 .	49	40	40
50	14:44:38.206 .	50	40	40
51	14:44:43.962 .	51	40	40
52	14:44:49.672 .	52	40	40
53	14:44:55.397 .	53	40	41
54	14:45:01.138 .	54	40	40
55	14:45:06.894 .	55	40	40
56	14:45:12.635 .	56	40	40
57	14:45:18.360 .	57	40	40
58	14:45:24.070 .	58	40	41
59	14:45:29.780 .	59	40	40
60	14:45:35.536 .	60	40	40
61	14:45:41.246 .	61	40	40
62	14:45:47.002 .	62	40	40

Data 40 cm		Percobaan	y	x
		Ke-		
63	14:45:52.712 .	63	40	41
64	14:45:58.468 .	64	40	40
65	14:46:04.178 .	65	40	40
66	14:46:09.934 .	66	40	40
67	14:46:15.644 .	67	40	40
68	14:46:21.353 .	68	40	41
69	14:46:27.110 .	69	40	40
70	14:46:32.819 .	70	40	40
71	14:46:38.576 .	71	40	40
72	14:46:44.285 .	72	40	41
73	14:46:50.042 .	73	40	40
74	14:46:55.736 .	74	40	40
75	14:47:01.492 .	75	40	40
76	14:47:07.217 .	76	40	40
77	14:47:12.958 .	77	40	40
78	14:47:18.668 .	78	40	41
79	14:47:24.455 .	79	40	40
80	14:47:30.134 .	80	40	40
81	14:47:35.890 .	81	40	40
82	14:47:41.600 .	82	40	40
83	14:47:47.356 .	83	40	41
84	14:47:53.066 .	84	40	40
85	14:47:58.776 .	85	40	40
86	14:48:04.532 .	86	40	40
87	14:48:10.242 .	87	40	40
88	14:48:15.998 .	88	40	41
89	14:48:21.708 .	89	40	40
90	14:48:27.464 .	90	40	40
91	14:48:33.174 .	91	40	40
92	14:48:38.930 .	92	40	40
93	14:48:44.640 .	93	40	41
94	14:48:50.349 .	94	40	40
95	14:48:56.106 .	95	40	40
96	14:49:01.815 .	96	40	40
97	14:49:07.572 .	97	40	40
98	14:49:13.281 .	98	40	41
99	14:49:19.038 .	99	40	40
100	14:49:24.747 .	100	40	40

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Data Sheet Ultrasonic 20 Cm Terhadap Kertas

Data 20 cm		Percobaan	y	x
		Ke-		
1	14:49:30.504 .	1	20	20
2	14:49:36.213 .	2	20	20
3	14:49:41.923 .	3	20	20
4	14:49:47.679 .	4	20	20
5	14:49:53.389 .	5	20	20
6	14:49:59.145 .	6	20	20
7	14:50:04.855 .	7	20	20
8	14:50:10.596 .	8	20	20
9	14:50:16.352 .	9	20	20
10	14:50:22.062 .	10	20	20
11	14:50:27.771 .	11	20	20
12	14:50:33.528 .	12	20	20
13	14:50:39.237 .	13	20	20
14	14:50:44.994 .	14	20	20
15	14:50:50.703 .	15	20	20
16	14:50:56.460 .	16	20	20
17	14:51:02.169 .	17	20	20
18	14:51:07.926 .	18	20	20
19	14:51:13.620 .	19	20	20
20	14:51:19.392 .	20	20	20
21	14:51:25.101 .	21	20	20
22	14:51:30.811 .	22	20	20
23	14:51:36.568 .	23	20	20
24	14:51:42.277 .	24	20	20
25	14:51:48.034 .	25	20	20
26	14:51:53.743 .	26	20	20
27	14:51:59.500 .	27	20	20
28	14:52:05.209 .	28	20	20
29	14:52:10.966 .	29	20	20
30	14:52:16.675 .	30	20	20
31	14:52:22.385 .	31	20	20
32	14:52:28.141 .	32	20	20
33	14:52:33.851 .	33	20	20
34	14:52:39.607 .	34	20	20
35	14:52:45.317 .	35	20	20
36	14:52:51.073 .	36	20	20
37	14:52:56.783 .	37	20	20
38	14:53:02.539 .	38	20	20
39	14:53:08.249 .	39	20	20
40	14:53:14.005 .	40	20	20
41	14:53:19.715 .	41	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
42	14:53:25.424 .	42	20	20
43	14:53:31.181 .	43	20	20
44	14:53:36.891 .	44	20	20
45	14:53:42.678 .	45	20	20
46	14:53:48.357 .	46	20	20
47	14:53:54.113 .	47	20	20
48	14:53:59.823 .	48	20	20
49	14:54:05.579 .	49	20	20
50	14:54:11.289 .	50	20	20
51	14:54:17.045 .	51	20	20
52	14:54:22.755 .	52	20	20
53	14:54:28.464 .	53	20	20
54	14:54:34.221 .	54	20	20
55	14:54:39.930 .	55	20	20
56	14:54:45.687 .	56	20	20
57	14:54:51.396 .	57	20	20
58	14:54:57.153 .	58	20	20
59	14:55:02.862 .	59	20	20
60	14:55:08.619 .	60	20	20
61	14:55:14.328 .	61	20	20
62	14:55:20.038 .	62	20	20
63	14:56:17.181 .	63	20	20
64	14:56:22.906 .	64	20	20
65	14:56:28.616 .	65	20	20
66	14:56:34.372 .	66	20	20
67	14:56:40.082 .	67	20	20
68	14:56:45.838 .	68	20	20
69	14:56:51.548 .	69	20	20
70	14:56:57.257 .	70	20	20
71	14:57:03.014 .	71	20	20
72	14:57:08.723 .	72	20	20
73	14:57:14.464 .	73	20	20
74	14:57:20.220 .	74	20	20
75	14:57:25.930 .	75	20	20
76	14:57:31.671 .	76	20	20
77	14:57:37.380 .	77	20	20
78	14:57:43.137 .	78	20	20
79	14:57:48.831 .	79	20	20
80	14:57:54.603 .	80	20	20
81	14:58:00.312 .	81	20	20
82	14:58:06.053 .	82	20	20
83	14:58:11.763 .	83	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
84	14:58:17.519 .	84	20	20
85	14:58:23.229 .	85	20	20
86	14:58:28.985 .	86	20	20
87	14:58:34.695 .	87	20	20
88	14:58:40.451 .	88	20	20
89	14:58:46.161 .	89	20	20
90	14:58:51.871 .	90	20	20
91	14:58:57.627 .	91	20	20
92	14:59:03.337 .	92	20	20
93	14:59:09.093 .	93	20	20
94	14:59:14.803 .	94	20	20
95	14:59:20.559 .	95	20	20
96	14:59:26.269 .	96	20	20
97	14:59:32.025 .	97	20	20
98	14:59:37.735 .	98	20	20
99	14:59:43.491 .	99	20	20
100	14:59:49.201 .	100	20	20

Data Sheet Ultrasonic 30 Cm Terhadap Kertas

Data 30 cm		Percobaan	y	x
		Ke-		
1	14:59:54.910 .	1	30	30
2	15:00:00.651 .	2	30	30
3	15:00:06.376 .	3	30	30
4	15:00:12.133 .	4	30	30
5	15:00:17.842 .	5	30	30
6	15:00:23.599 .	6	30	30
7	15:00:29.308 .	7	30	30
8	15:00:35.065 .	8	30	30
9	15:00:40.774 .	9	30	30
10	15:00:46.531 .	10	30	30
11	15:00:52.240 .	11	30	30
12	15:00:57.950 .	12	30	30
13	15:01:03.706 .	13	30	30
14	15:01:09.416 .	14	30	30
15	15:01:15.172 .	15	30	30
16	15:01:20.913 .	16	30	30
17	15:01:26.623 .	17	30	30
18	15:01:32.364 .	18	30	30
19	15:01:38.073 .	19	30	30
20	15:01:43.830 .	20	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
21	15:01:49.539 .	21	30	30
22	15:01:55.296 .	22	30	30
23	15:02:01.005 .	23	30	30
24	15:02:06.762 .	24	30	30
25	15:02:12.471 .	25	30	30
26	15:02:18.181 .	26	30	30
27	15:02:23.937 .	27	30	30
28	15:02:29.647 .	28	30	30
29	15:02:35.388 .	29	30	30
30	15:02:41.144 .	30	30	30
31	15:02:46.854 .	31	30	30
32	15:02:52.563 .	32	30	30
33	15:02:58.320 .	33	30	30
34	15:03:04.029 .	34	30	30
35	15:03:09.770 .	35	30	30
36	15:03:15.527 .	36	30	30
37	15:03:21.236 .	37	30	30
38	15:03:26.993 .	38	30	30
39	15:03:32.702 .	39	30	30
40	15:03:38.412 .	40	30	30
41	15:03:44.168 .	41	30	30
42	15:03:49.878 .	42	30	30
43	15:03:55.634 .	43	30	30
44	15:04:01.344 .	44	30	30
45	15:04:07.100 .	45	30	30
46	15:04:12.810 .	46	30	30
47	15:04:18.566 .	47	30	30
48	15:04:24.276 .	48	30	30
49	15:04:30.032 .	49	30	30
50	15:04:35.742 .	50	30	30
51	15:04:41.452 .	51	30	30
52	15:04:47.192 .	52	30	30
53	15:04:52.949 .	53	30	30
54	15:04:58.658 .	54	30	30
55	15:05:04.415 .	55	30	30
56	15:05:10.124 .	56	30	30
57	15:05:15.834 .	57	30	30
58	15:05:21.590 .	58	30	30
59	15:05:27.300 .	59	30	30
60	15:05:33.056 .	60	30	30
61	15:05:38.766 .	61	30	30
62	15:05:44.523 .	62	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
63	15:05:50.232 .	63	30	30
64	15:05:55.989 .	64	30	30
65	15:06:01.698 .	65	30	30
66	15:06:07.439 .	66	30	30
67	15:06:13.149 .	67	30	30
68	15:06:18.874 .	68	30	30
69	15:06:24.615 .	69	30	30
70	15:06:30.371 .	70	30	30
71	15:06:36.112 .	71	30	30
72	15:06:41.837 .	72	30	30
73	15:06:47.547 .	73	30	30
74	15:06:53.303 .	74	30	30
75	15:06:59.013 .	75	30	30
76	15:07:04.722 .	76	30	30
77	15:07:10.479 .	77	30	30
78	15:07:16.188 .	78	30	30
79	15:07:21.945 .	79	30	30
80	15:07:27.685 .	80	30	30
81	15:07:33.395 .	81	30	30
82	15:07:39.105 .	82	30	30
83	15:07:44.861 .	83	30	30
84	15:07:50.571 .	84	30	30
85	15:07:56.327 .	85	30	30
86	15:08:02.037 .	86	30	30
87	15:08:07.793 .	87	30	30
88	15:08:13.503 .	88	30	30
89	15:08:19.259 .	89	30	30
90	15:08:24.969 .	90	30	30
91	15:08:30.694 .	91	30	30
92	15:08:36.435 .	92	30	30
93	15:08:42.144 .	93	30	30
94	15:08:47.932 .	94	30	30
95	15:08:53.610 .	95	30	30
96	15:08:59.367 .	96	30	30
97	15:09:05.076 .	97	30	30
98	15:09:10.833 .	98	30	30
99	15:09:16.542 .	99	30	30
100	15:09:22.299 .	100	30	30

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Data Sheet Ultrasonic 40 Cm Terhadap Kertas

	Data 40 cm	Percobaan Ke-	y	x
1	15:09:28.008 .	1	40	40
2	15:09:33.765 .	2	40	40
3	15:09:39.475 .	3	40	40
4	15:09:45.184 .	4	40	40
5	15:09:50.941 .	5	40	40
6	15:09:56.650 .	6	40	40
7	15:10:02.407 .	7	40	40
8	15:10:08.116 .	8	40	40
9	15:10:13.873 .	9	40	40
10	15:10:19.582 .	10	40	40
11	15:10:25.339 .	11	40	40
12	15:10:31.048 .	12	40	40
13	15:10:36.773 .	13	40	40
14	15:10:42.530 .	14	40	40
15	15:10:48.239 .	15	40	40
16	15:10:53.996 .	16	40	40
17	15:10:59.705 .	17	40	40
18	15:11:05.415 .	18	40	40
19	15:11:11.171 .	19	40	40
20	15:11:16.881 .	20	40	40
21	15:11:22.637 .	21	40	40
22	15:11:28.347 .	22	40	40
23	15:11:34.104 .	23	40	40
24	15:11:39.813 .	24	40	40
25	15:11:45.570 .	25	40	40
26	15:11:51.279 .	26	40	40
27	15:11:57.036 .	27	40	40
28	15:12:02.745 .	28	40	40
29	15:12:08.455 .	29	40	40
30	15:12:14.211 .	30	40	40
31	15:12:19.921 .	31	40	40
32	15:12:25.677 .	32	40	40
33	15:12:31.387 .	33	40	40
34	15:12:37.143 .	34	40	40
35	15:12:42.853 .	35	40	40
36	15:12:48.609 .	36	40	40
37	15:12:54.319 .	37	40	40
38	15:13:00.028 .	38	40	40
39	15:13:05.785 .	39	40	40
40	15:13:11.494 .	40	40	40
41	15:13:17.251 .	41	40	40

Data 40 cm		Percobaan	y	x
		Ke-		
42	15:13:22.961 .	42	40	40
43	15:13:28.717 .	43	40	40
44	15:13:34.458 .	44	40	40
45	15:13:40.167 .	45	40	40
46	15:13:45.877 .	46	40	40
47	15:13:51.633 .	47	40	40
48	15:13:57.343 .	48	40	40
49	15:14:03.099 .	49	40	40
50	15:14:08.809 .	50	40	40
51	15:14:14.565 .	51	40	40
52	15:14:20.275 .	52	40	40
53	15:14:26.031 .	53	40	40
54	15:14:31.741 .	54	40	40
55	15:14:37.497 .	55	40	40
56	15:14:43.207 .	56	40	40
57	15:14:48.917 .	57	40	40
58	15:14:54.673 .	58	40	40
59	15:15:00.383 .	59	40	40
60	15:15:06.139 .	60	40	40
61	15:15:11.849 .	61	40	40
62	15:15:17.605 .	62	40	40
63	15:15:23.315 .	63	40	40
64	15:15:29.071 .	64	40	40
65	15:15:34.781 .	65	40	40
66	15:15:40.490 .	66	40	40
67	15:15:46.247 .	67	40	40
68	15:15:51.956 .	68	40	40
69	15:15:57.713 .	69	40	40
70	15:16:03.422 .	70	40	40
71	15:16:09.148 .	71	40	40
72	15:16:14.904 .	72	40	40
73	15:16:20.614 .	73	40	40
74	15:16:26.370 .	74	40	40
75	15:16:32.080 .	75	40	40
76	15:16:37.836 .	76	40	40
77	15:16:43.546 .	77	40	40
78	15:16:49.302 .	78	40	40
79	15:16:55.012 .	79	40	40
80	15:17:00.721 .	80	40	40
81	15:17:06.478 .	81	40	40
82	15:17:12.187 .	82	40	40
83	15:17:17.944 .	83	40	40

Data 40 cm		Percobaan	y	x
		Ke-		
84	15:17:23.653 .	84	40	40
85	15:17:29.410 .	85	40	40
86	15:17:35.119 .	86	40	40
87	15:17:40.876 .	87	40	40
88	15:17:46.585 .	88	40	40
89	15:17:52.342 .	89	40	40
90	15:17:58.051 .	90	40	40
91	15:18:03.761 .	91	40	40
92	15:18:09.517 .	92	40	40
93	15:18:15.227 .	93	40	40
94	15:18:20.968 .	94	40	40
95	15:18:26.724 .	95	40	40
96	15:18:32.434 .	96	40	40
97	15:18:38.190 .	97	40	40
98	15:18:43.900 .	98	40	40
99	15:18:49.609 .	99	40	40
100	15:18:55.366 .	100	40	40

Data Sheet Ultrasonic 20 Cm Terhadap Kaca

Data 20 cm		Percobaan	y	x
		Ke-		
1	15:19:01.076 .	1	20	20
2	15:19:06.832 .	2	20	20
3	15:19:12.542 .	3	20	20
4	15:19:18.298 .	4	20	20
5	15:19:24.008 .	5	20	20
6	15:19:29.764 .	6	20	20
7	15:19:35.474 .	7	20	20
8	15:19:41.183 .	8	20	20
9	15:19:46.940 .	9	20	20
10	15:19:52.649 .	10	20	20
11	15:19:58.406 .	11	20	20
12	15:20:04.115 .	12	20	20
13	15:20:09.872 .	13	20	20
14	15:20:15.581 .	14	20	20
15	15:20:21.338 .	15	20	20
16	15:20:27.047 .	16	20	20
17	15:20:32.757 .	17	20	20
18	15:20:38.513 .	18	20	20
19	15:20:44.223 .	19	20	20
20	15:20:49.979 .	20	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
21	15:20:55.689 .	21	20	20
22	15:21:01.445 .	22	20	20
23	15:21:07.155 .	23	20	20
24	15:21:12.911 .	24	20	20
25	15:21:18.621 .	25	20	20
26	15:21:24.377 .	26	20	20
27	15:21:30.087 .	27	20	20
28	15:21:35.843 .	28	20	20
29	15:21:41.553 .	29	20	20
30	15:21:47.263 .	30	20	20
31	15:21:53.003 .	31	20	20
32	15:21:58.760 .	32	20	20
33	15:22:04.469 .	33	20	20
34	15:22:10.226 .	34	20	20
35	15:22:15.935 .	35	20	20
36	15:22:21.645 .	36	20	20
37	15:22:27.401 .	37	20	20
38	15:22:33.111 .	38	20	20
39	15:22:38.867 .	39	20	20
40	15:22:44.577 .	40	20	20
41	15:22:50.334 .	41	20	20
42	15:22:56.043 .	42	20	20
43	15:23:01.800 .	43	20	20
44	15:23:07.509 .	44	20	20
45	15:23:13.266 .	45	20	20
46	15:23:18.975 .	46	20	20
47	15:23:24.685 .	47	20	20
48	15:23:30.441 .	48	20	20
49	15:23:36.151 .	49	20	20
50	15:23:41.907 .	50	20	20
51	15:23:47.617 .	51	20	20
52	15:23:53.358 .	52	20	20
53	15:23:59.067 .	53	20	20
54	15:24:04.824 .	54	20	20
55	15:24:10.533 .	55	20	20
56	15:24:16.290 .	56	20	20
57	15:24:21.999 .	57	20	20
58	15:24:27.756 .	58	20	20
59	15:24:33.465 .	59	20	20
60	15:24:39.222 .	60	20	20
61	15:24:44.931 .	61	20	20
62	15:24:50.641 .	62	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
63	15:24:56.413 .	63	20	20
64	15:25:02.123 .	64	20	20
65	15:25:07.879 .	65	20	20
66	15:25:13.589 .	66	20	20
67	15:25:19.298 .	67	20	20
68	15:25:25.055 .	68	20	20
69	15:25:30.764 .	69	20	20
70	15:25:36.521 .	70	20	20
71	15:25:42.230 .	71	20	20
72	15:25:47.987 .	72	20	20
73	15:25:53.696 .	73	20	20
74	15:25:59.453 .	74	20	20
75	15:26:05.162 .	75	20	20
76	15:26:10.872 .	76	20	20
77	15:26:16.628 .	77	20	20
78	15:26:22.338 .	78	20	20
79	15:26:28.094 .	79	20	20
80	15:26:33.804 .	80	20	20
81	15:26:39.560 .	81	20	20
82	15:26:45.270 .	82	20	20
83	15:26:51.026 .	83	20	20
84	15:26:56.736 .	84	20	20
85	15:27:02.492 .	85	20	20
86	15:27:08.202 .	86	20	20
87	15:27:13.912 .	87	20	20
88	15:27:19.668 .	88	20	20
89	15:27:25.378 .	89	20	20
90	15:27:31.134 .	90	20	20
91	15:27:36.844 .	91	20	20
92	15:27:42.600 .	92	20	20
93	15:27:48.310 .	93	20	20
94	15:27:54.019 .	94	20	20
95	15:27:59.776 .	95	20	20
96	15:28:05.532 .	96	20	20
97	15:28:11.242 .	97	20	20
98	15:28:16.951 .	98	20	20
99	15:28:22.708 .	99	20	20
100	15:28:28.417 .	100	20	20

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Data Sheet Ultrasonic 30 Cm Terhadap Kaca

	Data 30 cm	Percobaan Ke-	y	x
1	15:28:34.174 .	1	30	30
2	15:28:39.883 .	2	30	30
3	15:28:45.640 .	3	30	30
4	15:28:51.349 .	4	30	30
5	15:28:57.106 .	5	30	30
6	15:29:02.815 .	6	30	30
7	15:29:08.525 .	7	30	30
8	15:29:14.281 .	8	30	30
9	15:29:19.991 .	9	30	30
10	15:29:25.747 .	10	30	30
11	15:29:31.457 .	11	30	30
12	15:29:37.213 .	12	30	30
13	15:29:42.923 .	13	30	30
14	15:29:48.679 .	14	30	30
15	15:29:54.389 .	15	30	30
16	15:30:00.099 .	16	30	30
17	15:30:05.855 .	17	30	30
18	15:30:11.565 .	18	30	30
19	15:30:17.321 .	19	30	30
20	15:30:23.031 .	20	30	30
21	15:30:28.787 .	21	30	30
22	15:30:34.497 .	22	30	30
23	15:30:40.253 .	23	30	30
24	15:30:45.963 .	24	30	30
25	15:30:51.719 .	25	30	30
26	15:30:57.429 .	26	30	30
27	15:31:03.138 .	27	30	30
28	15:31:08.895 .	28	30	30
29	15:31:14.604 .	29	30	30
30	15:31:20.361 .	30	30	30
31	15:31:26.070 .	31	30	30
32	15:31:31.827 .	32	30	30
33	15:31:37.536 .	33	30	30
34	15:31:43.293 .	34	30	30
35	15:31:49.002 .	35	30	30
36	15:31:54.759 .	36	30	30
37	15:32:00.468 .	37	30	30
38	15:32:06.225 .	38	30	30
39	15:32:11.934 .	39	30	30
40	15:32:17.644 .	40	30	30
41	15:32:23.401 .	41	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
42	15:32:29.110 .	42	30	30
43	15:32:34.867 .	43	30	30
44	15:32:40.576 .	44	30	30
45	15:32:46.333 .	45	30	30
46	15:32:52.042 .	46	30	30
47	15:32:57.799 .	47	30	30
48	15:33:03.508 .	48	30	30
49	15:33:09.265 .	49	30	30
50	15:33:14.974 .	50	30	30
51	15:33:20.684 .	51	30	30
52	15:33:26.440 .	52	30	30
53	15:33:32.150 .	53	30	30
54	15:33:37.906 .	54	30	30
55	15:33:43.616 .	55	30	30
56	15:33:49.372 .	56	30	30
57	15:33:55.066 .	57	30	30
58	15:34:00.823 .	58	30	30
59	15:34:06.532 .	59	30	30
60	15:34:12.289 .	60	30	30
61	15:34:17.998 .	61	30	30
62	15:34:23.755 .	62	30	30
63	15:34:29.464 .	63	30	30
64	15:34:35.221 .	64	30	30
65	15:34:40.930 .	65	30	30
66	15:34:46.687 .	66	30	30
67	15:34:52.396 .	67	30	30
68	15:34:58.153 .	68	30	30
69	15:35:03.862 .	69	30	30
70	15:35:09.572 .	70	30	30
71	15:35:15.328 .	71	30	30
72	15:35:21.038 .	72	30	30
73	15:35:26.794 .	73	30	30
74	15:35:32.504 .	74	30	30
75	15:35:38.260 .	75	30	30
76	15:35:43.970 .	76	30	30
77	15:35:49.726 .	77	30	30
78	15:35:55.436 .	78	30	30
79	15:36:01.192 .	79	30	30
80	15:36:06.902 .	80	30	30
81	15:36:12.612 .	81	30	30
82	15:36:18.368 .	82	30	30
83	15:36:24.078 .	83	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
84	15:36:29.834 .	84	30	30
85	15:36:35.544 .	85	30	30
86	15:36:41.300 .	86	30	30
87	15:36:47.010 .	87	30	30
88	15:36:52.766 .	88	30	30
89	15:36:58.476 .	89	30	30
90	15:37:04.232 .	90	30	30
91	15:37:09.942 .	91	30	30
92	15:37:15.698 .	92	30	30
93	15:37:21.408 .	93	30	30
94	15:37:27.117 .	94	30	30
95	15:37:32.874 .	95	30	30
96	15:37:38.583 .	96	30	30
97	15:37:44.340 .	97	30	30
98	15:37:50.049 .	98	30	30
99	15:37:55.806 .	99	30	30
100	15:38:01.516 .	100	30	30

Data Sheet Ultrasonic 40 Cm Terhadap Kaca

Data 40 cm		Percobaan	y	x
		Ke-		
1	15:38:07.272 .	1	40	40
2	15:38:12.982 .	2	40	40
3	15:38:18.738 .	3	40	40
4	15:38:24.448 .	4	40	40
5	15:38:30.204 .	5	40	40
6	15:38:35.914 .	6	40	40
7	15:38:41.623 .	7	40	40
8	15:38:47.380 .	8	40	40
9	15:38:53.089 .	9	40	40
10	15:38:58.846 .	10	40	40
11	15:39:04.555 .	11	40	40
12	15:39:10.312 .	12	40	40
13	15:39:16.021 .	13	40	40
14	15:39:21.778 .	14	40	40
15	15:42:25.428 .	15	40	40
16	15:42:31.184 .	16	40	40
17	15:42:36.894 .	17	40	40
18	15:42:42.650 .	18	40	40
19	15:42:48.360 .	19	40	40
20	15:42:54.116 .	20	40	40

Data 40 cm		Percobaan	y	x
		Ke-		
21	15:42:59.826 .	21	40	40
22	15:43:05.582 .	22	40	40
23	15:43:11.292 .	23	40	40
24	15:43:17.001 .	24	40	40
25	15:43:22.758 .	25	40	40
26	15:43:28.467 .	26	40	40
27	15:43:34.224 .	27	40	40
28	15:43:39.933 .	28	40	40
29	15:43:45.690 .	29	40	40
30	15:43:51.399 .	30	40	40
31	15:43:57.156 .	31	40	40
32	15:44:02.865 .	32	40	40
33	15:44:08.622 .	33	40	40
34	15:44:14.331 .	34	40	40
35	15:44:20.041 .	35	40	40
36	15:44:25.797 .	36	40	40
37	15:44:31.507 .	37	40	40
38	15:44:37.263 .	38	40	40
39	15:44:42.973 .	39	40	40
40	15:44:48.729 .	40	40	40
41	15:44:54.439 .	41	40	40
42	15:45:00.195 .	42	40	40
43	15:45:05.905 .	43	40	40
44	15:45:11.661 .	44	40	40
45	15:45:17.371 .	45	40	40
46	15:45:23.081 .	46	40	40
47	15:45:28.837 .	47	40	40
48	15:45:34.547 .	48	40	40
49	15:45:40.303 .	49	40	40
50	15:45:46.013 .	50	40	40
51	15:45:51.769 .	51	40	40
52	15:45:57.479 .	52	40	40
53	15:46:03.235 .	53	40	40
54	15:46:08.945 .	54	40	40
55	15:46:14.701 .	55	40	40
56	15:46:20.411 .	56	40	40
57	15:46:26.120 .	57	40	40
58	15:46:31.877 .	58	40	40
59	15:46:37.586 .	59	40	40
60	15:46:43.343 .	60	40	40
61	15:46:49.052 .	61	40	40
62	15:46:54.809 .	62	40	40

Data 40 cm		Percobaan	y	x
		Ke-		
63	15:47:00.518 .	63	40	40
64	15:47:06.275 .	64	40	40
65	15:47:11.984 .	65	40	40
66	15:47:17.741 .	66	40	40
67	15:47:23.450 .	67	40	40
68	15:47:29.207 .	68	40	40
69	15:47:34.901 .	69	40	40
70	15:47:40.626 .	70	40	40
71	15:47:46.382 .	71	40	40
72	15:47:52.139 .	72	40	40
73	15:47:57.833 .	73	40	40
74	15:48:03.589 .	74	40	40
75	15:48:09.299 .	75	40	40
76	15:48:15.009 .	76	40	40
77	15:48:20.765 .	77	40	40
78	15:48:26.475 .	78	40	40
79	15:48:32.231 .	79	40	40
80	15:48:37.972 .	80	40	40
81	15:48:43.681 .	81	40	40
82	15:48:49.438 .	82	40	40
83	15:48:55.147 .	83	40	40
84	15:49:00.857 .	84	40	40
85	15:49:06.598 .	85	40	40
86	15:49:12.354 .	86	40	40
87	15:49:18.064 .	87	40	40
88	15:49:23.820 .	88	40	40
89	15:49:29.530 .	89	40	40
90	15:49:35.239 .	90	40	40
91	15:49:40.996 .	91	40	40
92	15:49:46.721 .	92	40	40
93	15:49:52.462 .	93	40	40
94	15:49:58.172 .	94	40	40
95	15:50:03.928 .	95	40	40
96	15:50:09.638 .	96	40	40
97	15:50:15.394 .	97	40	40
98	15:50:21.104 .	98	40	40
99	15:50:26.860 .	99	40	40
100	15:50:32.570 .	100	40	40

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Data Sheet Infra red 20 Cm Terhadap Tangan

	Data 20 cm	Percobaan	y	x
1	14:49:24.747 .	1	20	20
2	14:49:30.504 .	2	20	20
3	14:49:36.213 .	3	20	20
4	14:49:41.923 .	4	20	20
5	14:49:47.679 .	5	20	20
6	14:49:53.389 .	6	20	20
7	14:49:59.145 .	7	20	20
8	14:50:04.855 .	8	20	20
9	14:50:10.596 .	9	20	20
10	14:50:16.352 .	10	20	20
11	14:50:22.062 .	11	20	20
12	14:50:27.771 .	12	20	20
13	14:50:33.528 .	13	20	20
14	14:50:39.237 .	14	20	20
15	14:50:44.994 .	15	20	20
16	14:50:50.703 .	16	20	20
17	14:50:56.460 .	17	20	20
18	14:51:02.169 .	18	20	20
19	14:51:07.926 .	19	20	20
20	14:51:13.620 .	20	20	20
21	14:51:19.392 .	21	20	20
22	14:51:25.101 .	22	20	20
23	14:51:30.811 .	23	20	20
24	14:51:36.568 .	24	20	20
25	14:51:42.277 .	25	20	20
26	14:51:48.034 .	26	20	20
27	14:51:53.743 .	27	20	20
28	14:51:59.500 .	28	20	20
29	14:52:05.209 .	29	20	20
30	14:52:10.966 .	30	20	20
31	14:52:16.675 .	31	20	20
32	14:52:22.385 .	32	20	20
33	14:52:28.141 .	33	20	20
34	14:52:33.851 .	34	20	20
35	14:52:39.607 .	35	20	20
36	14:52:45.317 .	36	20	20
37	14:52:51.073 .	37	20	20
38	14:52:56.783 .	38	20	20
39	14:53:02.539 .	39	20	20
40	14:53:08.249 .	40	20	20
41	14:53:14.005 .	41	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
42	14:53:19.715 .	42	20	20
43	14:53:25.424 .	43	20	20
44	14:53:31.181 .	44	20	20
45	14:53:36.891 .	45	20	20
46	14:53:42.678 .	46	20	20
47	14:53:48.357 .	47	20	20
48	14:53:54.113 .	48	20	20
49	14:53:59.823 .	49	20	20
50	14:54:05.579 .	50	20	20
51	14:54:11.289 .	51	20	20
52	14:54:17.045 .	52	20	20
53	14:54:22.755 .	53	20	20
54	14:54:28.464 .	54	20	20
55	14:54:34.221 .	55	20	20
56	14:54:39.930 .	56	20	20
57	14:54:45.687 .	57	20	20
58	14:54:51.396 .	58	20	20
59	14:54:57.153 .	59	20	20
60	14:55:02.862 .	60	20	20
61	14:55:08.619 .	61	20	20
62	14:55:14.328 .	62	20	20
63	14:55:20.038 .	63	20	20
64	14:56:17.181 .	64	20	20
65	14:56:22.906 .	65	20	20
66	14:56:28.616 .	66	20	20
67	14:56:34.372 .	67	20	20
68	14:56:40.082 .	68	20	20
69	14:56:45.838 .	69	20	20
70	14:56:51.548 .	70	20	20
71	14:56:57.257 .	71	20	20
72	14:57:03.014 .	72	20	20
73	14:57:08.723 .	73	20	20
74	14:57:14.464 .	74	20	20
75	14:57:20.220 .	75	20	20
76	14:57:25.930 .	76	20	20
77	14:57:31.671 .	77	20	20
78	14:57:37.380 .	78	20	20
79	14:57:43.137 .	79	20	20
80	14:57:48.831 .	80	20	20
81	14:57:54.603 .	81	20	20
82	14:58:00.312 .	82	20	20
83	14:58:06.053 .	83	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
84	14:58:11.763 .	84	20	20
85	14:58:17.519 .	85	20	20
86	14:58:23.229 .	86	20	20
87	14:58:28.985 .	87	20	20
88	14:58:34.695 .	88	20	20
89	14:58:40.451 .	89	20	20
90	14:58:46.161 .	90	20	20
91	14:58:51.871 .	91	20	20
92	14:58:57.627 .	92	20	20
93	14:59:03.337 .	93	20	20
94	14:59:09.093 .	94	20	20
95	14:59:14.803 .	95	20	20
96	14:59:20.559 .	96	20	20
97	14:59:26.269 .	97	20	20
98	14:59:32.025 .	98	20	20
99	14:59:37.735 .	99	20	20
100	14:59:43.491 .	100	20	20

Data Sheet Infra red 30 Cm Terhadap Tangan

Data 30 cm		Percobaan	y	x
		Ke-		
1	15:01:43.830 .	1	30	30
2	15:01:49.539 .	2	30	30
3	15:01:55.296 .	3	30	30
4	15:02:01.005 .	4	30	30
5	15:02:06.762 .	5	30	30
6	15:02:12.471 .	6	30	30
7	15:02:18.181 .	7	30	30
8	15:02:23.937 .	8	30	30
9	15:02:29.647 .	9	30	30
10	15:02:35.388 .	10	30	30
11	15:02:41.144 .	11	30	30
12	15:02:46.854 .	12	30	30
13	15:02:52.563 .	13	30	30
14	15:02:58.320 .	14	30	30
15	15:03:04.029 .	15	30	30
16	15:03:09.770 .	16	30	30
17	15:03:15.527 .	17	30	30
18	15:03:21.236 .	18	30	30
19	15:03:26.993 .	19	30	30
20	15:03:32.702 .	20	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
21	15:03:38.412 .	21	30	30
22	15:03:44.168 .	22	30	30
23	15:03:49.878 .	23	30	30
24	15:03:55.634 .	24	30	30
25	15:04:01.344 .	25	30	30
26	15:04:07.100 .	26	30	30
27	15:04:12.810 .	27	30	30
28	15:04:18.566 .	28	30	30
29	15:04:24.276 .	29	30	30
30	15:04:30.032 .	30	30	30
31	15:04:35.742 .	31	30	30
32	15:04:41.452 .	32	30	30
33	15:04:47.192 .	33	30	30
34	15:04:52.949 .	34	30	30
35	15:04:58.658 .	35	30	30
36	15:05:04.415 .	36	30	30
37	15:05:10.124 .	37	30	30
38	15:05:15.834 .	38	30	30
39	15:05:21.590 .	39	30	30
40	15:05:27.300 .	40	30	30
41	15:05:33.056 .	41	30	30
42	15:05:38.766 .	42	30	30
43	15:05:44.523 .	43	30	30
44	15:05:50.232 .	44	30	30
45	15:05:55.989 .	45	30	30
46	15:06:01.698 .	46	30	30
47	15:06:07.439 .	47	30	30
48	15:06:13.149 .	48	30	30
49	15:06:18.874 .	49	30	30
50	15:06:24.615 .	50	30	30
51	15:06:30.371 .	51	30	30
52	15:06:36.112 .	52	30	30
53	15:06:41.837 .	53	30	30
54	15:06:47.547 .	54	30	30
55	15:06:53.303 .	55	30	30
56	15:06:59.013 .	56	30	30
57	15:07:04.722 .	57	30	30
58	15:07:10.479 .	58	30	30
59	15:07:16.188 .	59	30	30
60	15:07:21.945 .	60	30	30
61	15:07:27.685 .	61	30	30
62	15:07:33.395 .	62	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
63	15:07:39.105 .	63	30	30
64	15:07:44.861 .	64	30	30
65	15:07:50.571 .	65	30	30
66	15:07:56.327 .	66	30	30
67	15:08:02.037 .	67	30	30
68	15:08:07.793 .	68	30	30
69	15:08:13.503 .	69	30	30
70	15:08:19.259 .	70	30	30
71	15:08:24.969 .	71	30	30
72	15:08:30.694 .	72	30	30
73	15:08:36.435 .	73	30	30
74	15:08:42.144 .	74	30	30
75	15:08:47.932 .	75	30	30
76	15:08:53.610 .	76	30	30
77	15:08:59.367 .	77	30	30
78	15:09:05.076 .	78	30	30
79	15:09:10.833 .	79	30	30
80	15:09:16.542 .	80	30	30
81	15:09:22.299 .	81	30	30
82	15:09:28.008 .	82	30	30
83	15:09:33.765 .	83	30	30
84	15:09:39.475 .	84	30	30
85	15:09:45.184 .	85	30	30
86	15:09:50.941 .	86	30	30
87	15:09:56.650 .	87	30	30
88	15:10:02.407 .	88	30	30
89	15:10:08.116 .	89	30	30
90	15:10:13.873 .	90	30	30
91	15:10:19.582 .	91	30	30
92	15:10:25.339 .	92	30	30
93	15:10:31.048 .	93	30	30
94	15:10:36.773 .	94	30	30
95	15:10:42.530 .	95	30	30
96	15:10:48.239 .	96	30	30
97	15:10:53.996 .	97	30	30
98	15:10:59.705 .	98	30	30
99	15:11:05.415 .	99	30	30
100	15:11:11.171 .	100	30	30

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Data Sheet Infra red 40 Cm Terhadap Tangan

	Data 40 cm	Percobaan Ke-	y	x
1	15:01:43.830 .	1	40	40
2	15:01:49.539 .	2	40	40
3	15:01:55.296 .	3	40	40
4	15:02:01.005 .	4	40	40
5	15:02:06.762 .	5	40	40
6	15:02:12.471 .	6	40	40
7	15:02:18.181 .	7	40	40
8	15:02:23.937 .	8	40	40
9	15:02:29.647 .	9	40	40
10	15:02:35.388 .	10	40	40
11	15:02:41.144 .	11	40	40
12	15:02:46.854 .	12	40	40
13	15:02:52.563 .	13	40	40
14	15:02:58.320 .	14	40	40
15	15:03:04.029 .	15	40	40
16	15:03:09.770 .	16	40	40
17	15:03:15.527 .	17	40	40
18	15:03:21.236 .	18	40	40
19	15:03:26.993 .	19	40	40
20	15:03:32.702 .	20	40	40
21	15:03:38.412 .	21	40	40
22	15:03:44.168 .	22	40	40
23	15:03:49.878 .	23	40	40
24	15:03:55.634 .	24	40	40
25	15:04:01.344 .	25	40	40
26	15:04:07.100 .	26	40	40
27	15:04:12.810 .	27	40	40
28	15:04:18.566 .	28	40	40
29	15:04:24.276 .	29	40	40
30	15:04:30.032 .	30	40	40
31	15:04:35.742 .	31	40	40
32	15:04:41.452 .	32	40	40
33	15:04:47.192 .	33	40	40
34	15:04:52.949 .	34	40	40
35	15:04:58.658 .	35	40	40
36	15:05:04.415 .	36	40	40
37	15:05:10.124 .	37	40	40
38	15:05:15.834 .	38	40	40
39	15:05:21.590 .	39	40	40
40	15:05:27.300 .	40	40	40
41	15:05:33.056 .	41	40	40

Data 40 cm		Percobaan	y	x
		Ke-		
42	15:05:38.766 .	42	40	40
43	15:05:44.523 .	43	40	40
44	15:05:50.232 .	44	40	40
45	15:05:55.989 .	45	40	40
46	15:06:01.698 .	46	40	40
47	15:06:07.439 .	47	40	40
48	15:06:13.149 .	48	40	40
49	15:06:18.874 .	49	40	40
50	15:06:24.615 .	50	40	40
51	15:06:30.371 .	51	40	40
52	15:06:36.112 .	52	40	40
53	15:06:41.837 .	53	40	40
54	15:06:47.547 .	54	40	40
55	15:06:53.303 .	55	40	40
56	15:06:59.013 .	56	40	40
57	15:07:04.722 .	57	40	40
58	15:07:10.479 .	58	40	40
59	15:07:16.188 .	59	40	40
60	15:07:21.945 .	60	40	40
61	15:07:27.685 .	61	40	40
62	15:07:33.395 .	62	40	40
63	15:07:39.105 .	63	40	40
64	15:07:44.861 .	64	40	40
65	15:07:50.571 .	65	40	40
66	15:07:56.327 .	66	40	40
67	15:08:02.037 .	67	40	40
68	15:08:07.793 .	68	40	40
69	15:08:13.503 .	69	40	40
70	15:08:19.259 .	70	40	40
71	15:08:24.969 .	71	40	40
72	15:08:30.694 .	72	40	40
73	15:08:36.435 .	73	40	40
74	15:08:42.144 .	74	40	40
75	15:08:47.932 .	75	40	40
76	15:08:53.610 .	76	40	40
77	15:08:59.367 .	77	40	40
78	15:09:05.076 .	78	40	40
79	15:09:10.833 .	79	40	40
80	15:09:16.542 .	80	40	40
81	15:09:22.299 .	81	40	40
82	15:09:28.008 .	82	40	40
83	15:09:33.765 .	83	40	40

Data 40 cm		Percobaan	y	x
		Ke-		
84	15:09:39.475 .	84	40	40
85	15:09:45.184 .	85	40	40
86	15:09:50.941 .	86	40	40
87	15:09:56.650 .	87	40	40
88	15:10:02.407 .	88	40	40
89	15:10:08.116 .	89	40	40
90	15:10:13.873 .	90	40	40
91	15:10:19.582 .	91	40	40
92	15:10:25.339 .	92	40	40
93	15:10:31.048 .	93	40	40
94	15:10:36.773 .	94	40	40
95	15:10:42.530 .	95	40	40
96	15:10:48.239 .	96	40	40
97	15:10:53.996 .	97	40	40
98	15:10:59.705 .	98	40	40
99	15:11:05.415 .	99	40	40
100	15:11:11.171 .	100	40	40

Data Sheet Infra red 20 Cm Terhadap Sarung Tangan

Data 20 cm		Percobaan	y	x
		Ke-		
1	14:49:30.504 .	1	20	20
2	14:49:36.213 .	2	20	20
3	14:49:41.923 .	3	20	20
4	14:49:47.679 .	4	20	20
5	14:49:53.389 .	5	20	20
6	14:49:59.145 .	6	20	20
7	14:50:04.855 .	7	20	20
8	14:50:10.596 .	8	20	20
9	14:50:16.352 .	9	20	20
10	14:50:22.062 .	10	20	20
11	14:50:27.771 .	11	20	20
12	14:50:33.528 .	12	20	20
13	14:50:39.237 .	13	20	20
14	14:50:44.994 .	14	20	20
15	14:50:50.703 .	15	20	20
16	14:50:56.460 .	16	20	20
17	14:51:02.169 .	17	20	20
18	14:51:07.926 .	18	20	20
19	14:51:13.620 .	19	20	20
20	14:51:19.392 .	20	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
21	14:51:25.101 .	21	20	20
22	14:51:30.811 .	22	20	20
23	14:51:36.568 .	23	20	20
24	14:51:42.277 .	24	20	20
25	14:51:48.034 .	25	20	20
26	14:51:53.743 .	26	20	20
27	14:51:59.500 .	27	20	20
28	14:52:05.209 .	28	20	20
29	14:52:10.966 .	29	20	20
30	14:52:16.675 .	30	20	20
31	14:52:22.385 .	31	20	20
32	14:52:28.141 .	32	20	20
33	14:52:33.851 .	33	20	20
34	14:52:39.607 .	34	20	20
35	14:52:45.317 .	35	20	20
36	14:52:51.073 .	36	20	20
37	14:52:56.783 .	37	20	20
38	14:53:02.539 .	38	20	20
39	14:53:08.249 .	39	20	20
40	14:53:14.005 .	40	20	20
41	14:53:19.715 .	41	20	20
42	14:53:25.424 .	42	20	20
43	14:53:31.181 .	43	20	20
44	14:53:36.891 .	44	20	20
45	14:53:42.678 .	45	20	20
46	14:53:48.357 .	46	20	20
47	14:53:54.113 .	47	20	20
48	14:53:59.823 .	48	20	20
49	14:54:05.579 .	49	20	20
50	14:54:11.289 .	50	20	20
51	14:54:17.045 .	51	20	20
52	14:54:22.755 .	52	20	20
53	14:54:28.464 .	53	20	20
54	14:54:34.221 .	54	20	20
55	14:54:39.930 .	55	20	20
56	14:54:45.687 .	56	20	20
57	14:54:51.396 .	57	20	20
58	14:54:57.153 .	58	20	20
59	14:55:02.862 .	59	20	20
60	14:55:08.619 .	60	20	20
61	14:55:14.328 .	61	20	20
62	14:55:20.038 .	62	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
63	14:56:17.181 .	63	20	20
64	14:56:22.906 .	64	20	20
65	14:56:28.616 .	65	20	20
66	14:56:34.372 .	66	20	20
67	14:56:40.082 .	67	20	20
68	14:56:45.838 .	68	20	20
69	14:56:51.548 .	69	20	20
70	14:56:57.257 .	70	20	20
71	14:57:03.014 .	71	20	20
72	14:57:08.723 .	72	20	20
73	14:57:14.464 .	73	20	20
74	14:57:20.220 .	74	20	20
75	14:57:25.930 .	75	20	20
76	14:57:31.671 .	76	20	20
77	14:57:37.380 .	77	20	20
78	14:57:43.137 .	78	20	20
79	14:57:48.831 .	79	20	20
80	14:57:54.603 .	80	20	20
81	14:58:00.312 .	81	20	20
82	14:58:06.053 .	82	20	20
83	14:58:11.763 .	83	20	20
84	14:58:17.519 .	84	20	20
85	14:58:23.229 .	85	20	20
86	14:58:28.985 .	86	20	20
87	14:58:34.695 .	87	20	20
88	14:58:40.451 .	88	20	20
89	14:58:46.161 .	89	20	20
90	14:58:51.871 .	90	20	20
91	14:58:57.627 .	91	20	20
92	14:59:03.337 .	92	20	20
93	14:59:09.093 .	93	20	20
94	14:59:14.803 .	94	20	20
95	14:59:20.559 .	95	20	20
96	14:59:26.269 .	96	20	20
97	14:59:32.025 .	97	20	20
98	14:59:37.735 .	98	20	20
99	14:59:43.491 .	99	20	20
100	14:59:49.201 .	100	20	20

Data Sheet Infra red 30 Cm Terhadap Sarung Tangan

	Data 30 cm	Percobaan	y	x
1	14:59:54.910 .	1	30	30
2	15:00:00.651 .	2	30	30
3	15:00:06.376 .	3	30	30
4	15:00:12.133 .	4	30	30
5	15:00:17.842 .	5	30	30
6	15:00:23.599 .	6	30	30
7	15:00:29.308 .	7	30	30
8	15:00:35.065 .	8	30	30
9	15:00:40.774 .	9	30	30
10	15:00:46.531 .	10	30	30
11	15:00:52.240 .	11	30	30
12	15:00:57.950 .	12	30	30
13	15:01:03.706 .	13	30	30
14	15:01:09.416 .	14	30	30
15	15:01:15.172 .	15	30	30
16	15:01:20.913 .	16	30	30
17	15:01:26.623 .	17	30	30
18	15:01:32.364 .	18	30	30
19	15:01:38.073 .	19	30	30
20	15:01:43.830 .	20	30	30
21	15:01:49.539 .	21	30	30
22	15:01:55.296 .	22	30	30
23	15:02:01.005 .	23	30	30
24	15:02:06.762 .	24	30	30
25	15:02:12.471 .	25	30	30
26	15:02:18.181 .	26	30	30
27	15:02:23.937 .	27	30	30
28	15:02:29.647 .	28	30	30
29	15:02:35.388 .	29	30	30
30	15:02:41.144 .	30	30	30
31	15:02:46.854 .	31	30	30
32	15:02:52.563 .	32	30	30
33	15:02:58.320 .	33	30	30
34	15:03:04.029 .	34	30	30
35	15:03:09.770 .	35	30	30
36	15:03:15.527 .	36	30	30
37	15:03:21.236 .	37	30	30
38	15:03:26.993 .	38	30	30
39	15:03:32.702 .	39	30	30
40	15:03:38.412 .	40	30	30
41	15:03:44.168 .	41	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
42	15:03:49.878 .	42	30	30
43	15:03:55.634 .	43	30	30
44	15:04:01.344 .	44	30	30
45	15:04:07.100 .	45	30	30
46	15:04:12.810 .	46	30	30
47	15:04:18.566 .	47	30	30
48	15:04:24.276 .	48	30	30
49	15:04:30.032 .	49	30	30
50	15:04:35.742 .	50	30	30
51	15:04:41.452 .	51	30	30
52	15:04:47.192 .	52	30	30
53	15:04:52.949 .	53	30	30
54	15:04:58.658 .	54	30	30
55	15:05:04.415 .	55	30	30
56	15:05:10.124 .	56	30	30
57	15:05:15.834 .	57	30	30
58	15:05:21.590 .	58	30	30
59	15:05:27.300 .	59	30	30
60	15:05:33.056 .	60	30	30
61	15:05:38.766 .	61	30	30
62	15:05:44.523 .	62	30	30
63	15:05:50.232 .	63	30	30
64	15:05:55.989 .	64	30	30
65	15:06:01.698 .	65	30	30
66	15:06:07.439 .	66	30	30
67	15:06:13.149 .	67	30	30
68	15:06:18.874 .	68	30	30
69	15:06:24.615 .	69	30	30
70	15:06:30.371 .	70	30	30
71	15:06:36.112 .	71	30	30
72	15:06:41.837 .	72	30	30
73	15:06:47.547 .	73	30	30
74	15:06:53.303 .	74	30	30
75	15:06:59.013 .	75	30	30
76	15:07:04.722 .	76	30	30
77	15:07:10.479 .	77	30	30
78	15:07:16.188 .	78	30	30
79	15:07:21.945 .	79	30	30
80	15:07:27.685 .	80	30	30
81	15:07:33.395 .	81	30	30
82	15:07:39.105 .	82	30	30
83	15:07:44.861 .	83	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
84	15:07:50.571 .	84	30	30
85	15:07:56.327 .	85	30	30
86	15:08:02.037 .	86	30	30
87	15:08:07.793 .	87	30	30
88	15:08:13.503 .	88	30	30
89	15:08:19.259 .	89	30	30
90	15:08:24.969 .	90	30	30
91	15:08:30.694 .	91	30	30
92	15:08:36.435 .	92	30	30
93	15:08:42.144 .	93	30	30
94	15:08:47.932 .	94	30	30
95	15:08:53.610 .	95	30	30
96	15:08:59.367 .	96	30	30
97	15:09:05.076 .	97	30	30
98	15:09:10.833 .	98	30	30
99	15:09:16.542 .	99	30	30
100	15:09:22.299 .	100	30	30

Data Sheet Infra red 40 Cm Terhadap Sarung Tangan

Data 40 cm		Percobaan	y	x
		Ke-		
1	15:09:28.008 .	1	40	40
2	15:09:33.765 .	2	40	40
3	15:09:39.475 .	3	40	40
4	15:09:45.184 .	4	40	40
5	15:09:50.941 .	5	40	40
6	15:09:56.650 .	6	40	40
7	15:10:02.407 .	7	40	40
8	15:10:08.116 .	8	40	40
9	15:10:13.873 .	9	40	40
10	15:10:19.582 .	10	40	40
11	15:10:25.339 .	11	40	40
12	15:10:31.048 .	12	40	40
13	15:10:36.773 .	13	40	40
14	15:10:42.530 .	14	40	40
15	15:10:48.239 .	15	40	40
16	15:10:53.996 .	16	40	40
17	15:10:59.705 .	17	40	40
18	15:11:05.415 .	18	40	40
19	15:11:11.171 .	19	40	40
20	15:11:16.881 .	20	40	40

Data 40 cm		Percobaan	y	x
		Ke-		
21	15:11:22.637 .	21	40	40
22	15:11:28.347 .	22	40	40
23	15:11:34.104 .	23	40	40
24	15:11:39.813 .	24	40	40
25	15:11:45.570 .	25	40	40
26	15:11:51.279 .	26	40	40
27	15:11:57.036 .	27	40	40
28	15:12:02.745 .	28	40	40
29	15:12:08.455 .	29	40	40
30	15:12:14.211 .	30	40	40
31	15:12:19.921 .	31	40	40
32	15:12:25.677 .	32	40	40
33	15:12:31.387 .	33	40	40
34	15:12:37.143 .	34	40	40
35	15:12:42.853 .	35	40	40
36	15:12:48.609 .	36	40	40
37	15:12:54.319 .	37	40	40
38	15:13:00.028 .	38	40	40
39	15:13:05.785 .	39	40	40
40	15:13:11.494 .	40	40	40
41	15:13:17.251 .	41	40	40
42	15:13:22.961 .	42	40	40
43	15:13:28.717 .	43	40	40
44	15:13:34.458 .	44	40	40
45	15:13:40.167 .	45	40	40
46	15:13:45.877 .	46	40	40
47	15:13:51.633 .	47	40	40
48	15:13:57.343 .	48	40	40
49	15:14:03.099 .	49	40	40
50	15:14:08.809 .	50	40	40
51	15:14:14.565 .	51	40	40
52	15:14:20.275 .	52	40	40
53	15:14:26.031 .	53	40	40
54	15:14:31.741 .	54	40	40
55	15:14:37.497 .	55	40	40
56	15:14:43.207 .	56	40	40
57	15:14:48.917 .	57	40	40
58	15:14:54.673 .	58	40	40
59	15:15:00.383 .	59	40	40
60	15:15:06.139 .	60	40	40
61	15:15:11.849 .	61	40	40
62	15:15:17.605 .	62	40	40

Data 40 cm		Percobaan	y	x
		Ke-		
63	15:15:23.315 .	63	40	40
64	15:15:29.071 .	64	40	40
65	15:15:34.781 .	65	40	40
66	15:15:40.490 .	66	40	40
67	15:15:46.247 .	67	40	40
68	15:15:51.956 .	68	40	40
69	15:15:57.713 .	69	40	40
70	15:16:03.422 .	70	40	40
71	15:16:09.148 .	71	40	40
72	15:16:14.904 .	72	40	40
73	15:16:20.614 .	73	40	40
74	15:16:26.370 .	74	40	40
75	15:16:32.080 .	75	40	40
76	15:16:37.836 .	76	40	40
77	15:16:43.546 .	77	40	40
78	15:16:49.302 .	78	40	40
79	15:16:55.012 .	79	40	40
80	15:17:00.721 .	80	40	40
81	15:17:06.478 .	81	40	40
82	15:17:12.187 .	82	40	40
83	15:17:17.944 .	83	40	40
84	15:17:23.653 .	84	40	40
85	15:17:29.410 .	85	40	40
86	15:17:35.119 .	86	40	40
87	15:17:40.876 .	87	40	40
88	15:17:46.585 .	88	40	40
89	15:17:52.342 .	89	40	40
90	15:17:58.051 .	90	40	40
91	15:18:03.761 .	91	40	40
92	15:18:09.517 .	92	40	40
93	15:18:15.227 .	93	40	40
94	15:18:20.968 .	94	40	40
95	15:18:26.724 .	95	40	40
96	15:18:32.434 .	96	40	40
97	15:18:38.190 .	97	40	40
98	15:18:43.900 .	98	40	40
99	15:18:49.609 .	99	40	40
100	15:18:55.366 .	100	40	40

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Data Sheet Infra red 20 Cm Terhadap Kertas

Data 20 cm		Percobaan	y	x
		Ke-		
1	14:15:18.819 .	1	20	20
2	14:15:24.529 .	2	20	20
3	14:15:30.285 .	3	20	20
4	14:15:35.995 .	4	20	20
5	14:15:41.751 .	5	20	21
6	14:15:47.461 .	6	20	20
7	14:15:53.170 .	7	20	20
8	14:15:58.927 .	8	20	20
9	14:16:04.636 .	9	20	20
10	14:16:10.393 .	10	20	21
11	14:16:16.102 .	11	20	20
12	14:16:21.859 .	12	20	20
13	14:16:27.568 .	13	20	20
14	14:16:33.325 .	14	20	20
15	14:16:39.034 .	15	20	21
16	14:16:44.744 .	16	20	20
17	14:16:50.500 .	17	20	20
18	14:16:56.210 .	20	20	20
19	14:17:01.967 .	19	20	20
20	14:17:07.676 .	20	20	21
21	14:17:13.433 .	21	20	20
22	14:17:19.142 .	22	20	20
23	14:17:24.899 .	23	20	20
24	14:17:30.608 .	24	20	20
25	14:17:36.365 .	25	20	20
26	14:17:42.074 .	26	20	21
27	14:17:47.784 .	27	20	20
28	14:17:53.540 .	28	20	20
29	14:17:59.250 .	29	20	20
30	14:18:05.006 .	30	20	20
31	14:18:10.716 .	31	20	20
32	14:18:16.472 .	32	20	21
33	14:18:22.182 .	33	20	20
34	14:18:27.938 .	34	20	20
35	14:18:33.648 .	35	20	20
36	14:18:39.404 .	36	20	20
37	14:18:45.114 .	37	20	21
38	14:18:50.824 .	38	20	20
39	14:18:56.580 .	39	20	20
40	14:19:02.290 .	40	20	20
41	14:19:08.046 .	41	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
42	14:19:13.756 .	42	20	21
43	14:19:19.512 .	43	20	20
44	14:19:25.222 .	44	20	20
45	14:19:30.978 .	45	20	20
46	14:19:36.688 .	46	20	20
47	14:19:42.397 .	47	20	21
48	14:19:48.154 .	48	20	20
49	14:19:53.863 .	49	20	20
50	14:19:59.620 .	50	20	20
51	14:20:05.329 .	51	20	20
52	14:20:11.086 .	52	20	20
53	14:20:16.795 .	53	20	21
54	14:20:22.552 .	54	20	20
55	14:20:28.261 .	55	20	20
56	14:20:34.018 .	56	20	20
57	14:20:39.727 .	57	20	20
58	14:20:45.437 .	58	20	20
59	14:20:51.193 .	59	20	21
60	14:20:56.903 .	60	20	20
61	14:21:02.659 .	61	20	20
62	14:21:08.369 .	62	20	20
63	14:21:14.125 .	63	20	20
64	14:21:19.835 .	64	20	21
65	14:21:25.591 .	65	20	20
66	14:21:31.301 .	66	20	20
67	14:21:37.011 .	67	20	20
68	14:21:42.767 .	68	20	20
69	14:21:48.477 .	69	20	21
70	14:21:54.233 .	70	20	20
71	14:21:59.943 .	71	20	20
72	14:22:05.699 .	72	20	20
73	14:22:11.409 .	73	20	20
74	14:22:17.165 .	74	20	20
75	14:22:22.875 .	75	20	21
76	14:22:28.631 .	76	20	20
77	14:22:34.341 .	77	20	20
78	14:22:40.050 .	78	20	20
79	14:22:45.807 .	79	20	20
80	14:22:51.516 .	80	20	20
81	14:22:57.273 .	81	20	21
82	14:23:02.982 .	82	20	20
83	14:23:08.739 .	83	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
84	14:23:14.448 .	84	20	20
85	14:23:20.205 .	85	20	20
86	14:23:25.914 .	86	20	21
87	14:23:31.671 .	87	20	20
88	14:23:37.380 .	88	20	20
89	14:23:43.090 .	89	20	20
90	14:23:48.846 .	90	20	20
91	14:23:54.556 .	91	20	20
92	14:24:00.312 .	92	20	21
93	14:24:06.022 .	93	20	20
94	14:24:11.778 .	94	20	20
95	14:24:17.488 .	95	20	20
96	14:24:23.244 .	96	20	20
97	14:24:28.954 .	97	20	20
98	14:24:34.664 .	98	20	21
99	14:24:40.420 .	99	20	20
100	14:24:46.130 .	100	20	20

Data Sheet Infra red 30 Cm Terhadap Kertas

Data 30 cm		Percobaan	y	x
		Ke-		
1	14:24:51.886 .	1	30	31
2	14:24:57.596 .	2	30	30
3	14:25:03.352 .	3	30	30
4	14:25:09.062 .	4	30	30
5	14:25:14.818 .	5	30	30
6	14:25:20.528 .	6	30	30
7	14:25:26.284 .	7	30	30
8	14:25:31.994 .	8	30	31
9	14:25:37.703 .	9	30	30
10	14:25:43.460 .	10	30	30
11	14:25:49.169 .	11	30	30
12	14:25:54.926 .	12	30	30
13	14:26:00.635 .	13	30	30
14	14:26:06.392 .	14	30	30
15	14:26:12.101 .	15	30	31
16	14:26:17.858 .	16	30	30
17	14:26:23.567 .	17	30	30
18	14:26:29.277 .	18	30	30
19	14:26:35.034 .	19	30	30
20	14:26:40.743 .	20	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
21	14:26:46.500 .	21	30	31
22	14:26:52.209 .	22	30	30
23	14:26:57.966 .	23	30	30
24	14:27:03.675 .	24	30	30
25	14:27:09.432 .	25	30	30
26	14:27:15.141 .	26	30	30
27	14:27:20.898 .	27	30	31
28	14:27:26.607 .	28	30	30
29	14:27:32.317 .	29	30	30
30	14:27:38.073 .	30	30	30
31	14:27:43.783 .	31	30	30
32	14:27:49.539 .	32	30	30
33	14:27:55.249 .	33	30	30
34	14:28:01.005 .	34	30	31
35	14:28:06.715 .	35	30	30
36	14:28:12.471 .	36	30	30
37	14:28:18.181 .	37	30	30
38	14:28:23.891 .	38	30	30
39	14:28:29.647 .	39	30	30
40	14:28:35.357 .	40	30	31
41	14:28:41.113 .	41	30	30
42	14:28:46.823 .	42	30	30
43	14:28:52.579 .	43	30	30
44	14:28:58.289 .	44	30	30
45	14:29:04.045 .	45	30	30
46	14:29:09.755 .	46	30	30
47	14:29:15.511 .	47	30	31
48	14:29:21.221 .	48	30	30
49	14:29:26.930 .	49	30	30
50	14:29:32.687 .	50	30	30
51	14:29:38.396 .	51	30	30
52	14:29:44.153 .	52	30	30
53	14:29:49.862 .	53	30	31
54	14:29:55.619 .	54	30	30
55	14:30:01.328 .	55	30	30
56	14:30:07.085 .	56	30	30
57	14:30:12.794 .	57	30	30
58	14:30:18.551 .	58	30	30
59	14:30:24.260 .	59	30	30
60	14:30:29.970 .	60	30	31
61	14:30:35.726 .	61	30	30
62	14:30:41.436 .	62	30	30

Data 30 cm		Percobaan	y	x
		Ke-		
63	14:30:47.192 .	63	30	30
64	14:30:52.902 .	64	30	30
65	14:30:58.658 .	65	30	30
66	14:31:04.368 .	66	30	31
67	14:31:10.124 .	67	30	30
68	14:31:15.834 .	68	30	30
69	14:31:21.544 .	69	30	30
70	14:31:27.300 .	70	30	30
71	14:31:33.010 .	71	30	30
72	14:31:38.766 .	72	30	31
73	14:31:44.476 .	73	30	30
74	14:31:50.232 .	74	30	30
75	14:31:55.942 .	75	30	30
76	14:32:01.698 .	76	30	30
77	14:32:07.408 .	77	30	30
78	14:32:13.164 .	78	30	31
79	14:32:18.874 .	79	30	30
80	14:32:24.583 .	80	30	30
81	14:32:30.340 .	81	30	30
82	14:32:36.049 .	82	30	30
83	14:32:41.806 .	83	30	30
84	14:32:47.515 .	84	30	31
85	14:32:53.272 .	85	30	30
86	14:32:58.981 .	86	30	30
87	14:33:04.738 .	87	30	30
88	14:33:10.447 .	88	30	30
89	14:33:16.157 .	89	30	30
90	14:33:21.913 .	90	30	30
91	14:33:27.623 .	91	30	31
92	14:33:33.379 .	92	30	30
93	14:33:39.089 .	93	30	30
94	14:33:44.845 .	94	30	30
95	14:33:50.555 .	95	30	30
96	14:33:56.311 .	96	30	30
97	14:34:02.021 .	97	30	31
98	14:34:07.778 .	98	30	30
99	14:34:13.487 .	99	30	30
100	14:34:19.197 .	100	30	30

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Data Sheet Infra red 40 Cm Terhadap Kertas

	Data 40 cm	Percobaan Ke-	y	x
1	14:34:24.953 .	1	40	40
2	14:34:30.663 .	2	40	40
3	14:34:36.419 .	3	40	41
4	14:40:14.763 .	4	40	40
5	14:40:20.353 .	5	40	40
6	14:40:26.063 .	6	40	40
7	14:40:31.819 .	7	40	40
8	14:40:37.529 .	8	40	41
9	14:40:43.285 .	9	40	40
10	14:40:48.995 .	10	40	40
11	14:40:54.751 .	11	40	40
12	14:41:00.461 .	12	40	40
13	14:41:06.170 .	13	40	41
14	14:41:11.927 .	14	40	40
15	14:41:17.636 .	15	40	40
16	14:41:23.393 .	16	40	40
17	14:41:29.102 .	17	40	40
18	14:41:34.859 .	18	40	41
19	14:41:40.568 .	19	40	40
20	14:41:46.325 .	20	40	40
21	14:41:52.034 .	21	40	40
22	14:41:57.744 .	22	40	40
23	14:42:03.500 .	23	40	41
24	14:42:09.210 .	24	40	40
25	14:42:14.951 .	25	40	40
26	14:42:20.707 .	26	40	40
27	14:42:26.417 .	27	40	40
28	14:42:32.127 .	28	40	41
29	14:42:37.883 .	29	40	40
30	14:42:43.593 .	30	40	40
31	14:42:49.349 .	31	40	40
32	14:42:55.059 .	32	40	40
33	14:43:00.815 .	33	40	41
34	14:43:06.525 .	34	40	40
35	14:43:12.281 .	35	40	40
36	14:43:17.991 .	36	40	40
37	14:43:23.747 .	37	40	40
38	14:43:29.457 .	40	40	41
39	14:43:35.166 .	39	40	40
40	14:43:40.923 .	40	40	40
41	14:43:46.632 .	41	40	40

Data 40 cm		Percobaan	y	x
		Ke-		
42	14:43:52.389 .	40	40	40
43	14:43:58.098 .	43	40	41
44	14:44:03.855 .	44	40	40
45	14:44:09.564 .	45	40	40
46	14:44:15.321 .	46	40	40
47	14:44:21.030 .	47	40	40
48	14:44:26.740 .	48	40	41
49	14:44:32.496 .	49	40	40
50	14:44:38.206 .	50	40	40
51	14:44:43.962 .	51	40	40
52	14:44:49.672 .	52	40	40
53	14:44:55.397 .	53	40	41
54	14:45:01.138 .	54	40	40
55	14:45:06.894 .	55	40	40
56	14:45:12.635 .	56	40	40
57	14:45:18.360 .	57	40	40
58	14:45:24.070 .	58	40	41
59	14:45:29.780 .	59	40	40
60	14:45:35.536 .	60	40	40
61	14:45:41.246 .	61	40	40
62	14:45:47.002 .	62	40	40
63	14:45:52.712 .	63	40	41
64	14:45:58.468 .	64	40	40
65	14:46:04.178 .	65	40	40
66	14:46:09.934 .	66	40	40
67	14:46:15.644 .	67	40	40
68	14:46:21.353 .	68	40	41
69	14:46:27.110 .	69	40	40
70	14:46:32.819 .	70	40	40
71	14:46:38.576 .	71	40	40
72	14:46:44.285 .	72	40	41
73	14:46:50.042 .	73	40	40
74	14:46:55.736 .	74	40	40
75	14:47:01.492 .	75	40	40
76	14:47:07.217 .	76	40	40
77	14:47:12.958 .	77	40	40
78	14:47:18.668 .	78	40	41
79	14:47:24.455 .	79	40	40
80	14:47:30.134 .	80	40	40
81	14:47:35.890 .	81	40	40
82	14:47:41.600 .	82	40	40
83	14:47:47.356 .	83	40	41

Data 40 cm		Percobaan	y	x
		Ke-		
84	14:47:53.066 .	84	40	40
85	14:47:58.776 .	85	40	40
86	14:48:04.532 .	86	40	40
87	14:48:10.242 .	87	40	40
88	14:48:15.998 .	88	40	41
89	14:48:21.708 .	89	40	40
90	14:48:27.464 .	90	40	40
91	14:48:33.174 .	91	40	40
92	14:48:38.930 .	92	40	40
93	14:48:44.640 .	93	40	41
94	14:48:50.349 .	94	40	40
95	14:48:56.106 .	95	40	40
96	14:49:01.815 .	96	40	40
97	14:49:07.572 .	97	40	40
98	14:49:13.281 .	98	40	41
99	14:49:19.038 .	99	40	40
100	14:49:24.747 .	100	40	40

Data Sheet Infra red 20 Cm Terhadap Kaca

Data 20 cm		Percobaan	y	x
		Ke-		
1	13:48:34.216 .	1	20	22
2	13:48:39.926 .	2	20	25
3	13:48:45.682 .	3	20	23
4	13:48:51.392 .	4	20	23
5	13:48:57.148 .	5	20	20
6	13:49:02.858 .	6	20	23
7	13:49:08.567 .	7	20	21
8	13:49:14.324 .	8	20	22
9	13:49:20.033 .	9	20	21
10	13:49:25.790 .	10	20	22
11	13:49:31.499 .	11	20	22
12	13:49:37.256 .	12	20	21
13	13:49:42.965 .	13	20	20
14	13:49:48.722 .	14	20	20
15	13:49:54.431 .	15	20	22
16	13:50:00.141 .	16	20	24
17	13:50:05.897 .	17	20	20
18	13:50:11.607 .	18	20	21
19	13:50:17.363 .	19	20	20
20	13:50:23.073 .	20	20	20

Data 20 cm		Percobaan	y	x
		Ke-		
21	13:50:28.829 .	21	20	20
22	13:50:34.539 .	22	20	20
23	13:50:40.295 .	23	20	20
24	13:50:46.005 .	24	20	20
25	13:50:51.761 .	25	20	20
26	13:50:57.471 .	26	20	20
27	13:51:03.181 .	27	20	20
28	13:51:08.937 .	28	20	21
29	13:51:14.647 .	29	20	20
30	13:51:20.403 .	30	20	20
31	13:51:26.113 .	31	20	20
32	13:51:31.869 .	32	20	20
33	13:51:37.579 .	33	20	20
34	13:51:43.335 .	34	20	25
35	13:51:49.045 .	35	20	20
36	13:51:54.754 .	36	20	20
37	13:52:00.511 .	37	20	26
38	13:52:06.220 .	38	20	23
39	13:52:11.977 .	39	20	27
40	13:52:17.686 .	40	20	27
41	13:52:23.443 .	41	20	26
42	13:52:29.152 .	42	20	26
43	13:52:34.909 .	43	20	24
44	13:52:40.618 .	44	20	21
45	13:52:46.375 .	45	20	22
46	13:52:52.084 .	46	20	22
47	13:52:57.794 .	47	20	24
48	13:53:03.550 .	48	20	21
49	13:53:09.260 .	49	20	28
50	13:53:15.016 .	50	20	24
51	13:53:20.726 .	51	20	21
52	13:53:26.482 .	52	20	28
53	13:53:32.192 .	53	20	23
54	13:53:37.948 .	54	20	29
55	13:53:43.658 .	55	20	24
56	13:53:49.368 .	56	20	28
57	13:53:55.124 .	57	20	27
58	13:54:00.834 .	58	20	30
59	13:54:06.590 .	59	20	25
60	13:54:12.300 .	60	20	28
61	13:54:18.056 .	61	20	29
62	13:54:23.766 .	62	20	27

Data 20 cm		Percobaan	y	x
		Ke-		
63	13:54:29.522 .	63	20	30
64	13:54:35.232 .	64	20	30
65	13:54:40.988 .	65	20	29
66	13:54:46.698 .	66	20	23
67	13:54:52.407 .	67	20	24
68	13:54:58.164 .	68	20	25
69	13:55:03.873 .	69	20	25
70	13:55:09.630 .	70	20	21
71	13:55:15.339 .	71	20	23
72	13:55:21.096 .	72	20	23
73	13:55:26.805 .	73	20	21
74	13:55:32.562 .	74	20	24
75	13:55:38.271 .	75	20	24
76	13:55:43.981 .	76	20	25
77	13:55:49.737 .	77	20	23
78	13:55:55.447 .	78	20	30
79	13:56:01.203 .	79	20	25
80	13:56:06.913 .	80	20	25
81	13:56:12.670 .	81	20	26
82	13:56:18.379 .	82	20	30
83	13:56:24.136 .	83	20	28
84	13:56:29.845 .	84	20	26
85	13:56:35.602 .	85	20	30
86	13:56:41.311 .	86	20	26
87	13:56:47.021 .	87	20	26
88	13:56:52.793 .	88	20	30
89	13:56:58.502 .	89	20	27
90	13:57:04.212 .	90	20	27
91	13:57:09.968 .	91	20	30
92	13:57:15.678 .	92	20	30
93	13:57:21.434 .	93	20	26
94	13:57:27.144 .	94	20	30
95	13:57:32.900 .	95	20	27
96	13:57:38.610 .	96	20	24
97	13:57:44.366 .	97	20	27
98	13:57:50.076 .	98	20	29
99	13:57:55.832 .	99	20	27
100	13:58:01.542 .	100	20	29

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Data Sheet Infra red 30 Cm Terhadap Kaca

Data 30 cm		Percobaan	y	x
		Ke-		
1	13:58:58.872 .	1	30	30
2	13:59:04.582 .	2	30	30
3	13:59:10.291 .	3	30	32
4	13:59:16.048 .	4	30	32
5	13:59:21.757 .	5	30	31
6	13:59:27.514 .	6	30	31
7	13:59:33.223 .	7	30	30
8	13:59:38.980 .	8	30	33
9	13:59:44.689 .	9	30	33
10	13:59:50.446 .	10	30	31
11	13:59:56.156 .	11	30	30
12	14:00:01.865 .	12	30	31
13	14:00:07.622 .	13	30	35
14	14:00:13.331 .	14	30	33
15	14:00:19.088 .	15	30	30
16	14:00:24.797 .	16	30	38
17	14:00:30.554 .	17	30	34
18	14:00:36.263 .	18	30	33
19	14:00:42.020 .	19	30	40
20	14:00:47.729 .	20	30	37
21	14:00:53.439 .	21	30	38
22	14:00:59.195 .	22	30	39
23	14:01:04.905 .	23	30	39
24	14:01:10.661 .	24	30	40
25	14:01:16.371 .	25	30	39
26	14:01:22.127 .	26	30	40
27	14:01:27.837 .	27	30	39
28	14:01:33.593 .	28	30	39
29	14:01:39.303 .	29	30	38
30	14:01:45.059 .	30	30	38
31	14:01:50.769 .	31	30	34
32	14:01:56.525 .	32	30	34
33	14:02:02.235 .	33	30	34
34	14:02:07.945 .	34	30	35
35	14:02:13.701 .	35	30	35
36	14:02:19.411 .	36	30	35
37	14:02:25.167 .	37	30	36
38	14:02:30.877 .	38	30	30
39	14:02:36.633 .	39	30	37
40	14:02:42.343 .	40	30	38
41	14:02:48.099 .	41	30	37

Data 30 cm		Percobaan	y	x
		Ke-		
42	14:02:53.809 .	42	30	32
43	14:02:59.518 .	43	30	30
44	14:03:05.275 .	44	30	40
45	14:03:11.000 .	45	30	34
46	14:03:16.725 .	46	30	33
47	14:03:22.481 .	47	30	39
48	14:03:28.191 .	48	30	32
49	14:03:33.901 .	49	30	33
50	14:03:39.657 .	50	30	33
51	14:03:45.367 .	51	30	30
52	14:03:51.123 .	52	30	34
53	14:03:56.833 .	53	30	34
54	14:04:02.589 .	54	30	35
55	14:04:08.299 .	55	30	31
56	14:04:14.055 .	56	30	36
57	14:04:19.765 .	57	30	36
58	14:04:25.521 .	58	30	37
59	14:04:31.231 .	59	30	37
60	14:04:36.940 .	60	30	35
61	14:04:42.697 .	61	30	36
62	14:04:48.406 .	62	30	36
63	14:04:54.163 .	63	30	34
64	14:04:59.872 .	64	30	33
65	14:05:05.629 .	65	30	34
66	14:05:11.338 .	66	30	36
67	14:05:17.095 .	67	30	35
68	14:05:22.804 .	68	30	35
69	14:05:28.561 .	69	30	34
70	14:05:34.271 .	70	30	33
71	14:05:39.980 .	71	30	32
72	14:05:45.737 .	72	30	32
73	14:05:51.446 .	73	30	35
74	14:05:57.203 .	74	30	33
75	14:06:02.912 .	75	30	31
76	14:06:08.669 .	76	30	31
77	14:06:14.378 .	77	30	31
78	14:06:20.135 .	78	30	35
79	14:06:25.844 .	79	30	31
80	14:06:31.601 .	80	30	30
81	14:06:37.310 .	81	30	36
82	14:06:43.020 .	82	30	37
83	14:06:48.776 .	83	30	36

Data 30 cm		Percobaan	y	x
		Ke-		
84	14:06:54.486 .	84	30	36
85	14:07:00.242 .	85	30	37
86	14:07:05.952 .	86	30	37
87	14:07:11.693 .	87	30	35
88	14:07:17.402 .	88	30	30
89	14:07:23.159 .	89	30	35
90	14:07:28.868 .	90	30	34
91	14:07:34.625 .	91	30	34
92	14:07:40.334 .	92	30	34
93	14:07:46.091 .	93	30	36
94	14:07:51.800 .	94	30	36
95	14:07:57.557 .	95	30	30
96	14:08:03.266 .	96	30	33
97	14:08:09.023 .	97	30	36
98	14:08:14.732 .	98	30	37
99	14:08:20.442 .	99	30	30
100	14:08:26.198 .	100	30	30

Data Sheet Infra red 40 Cm Terhadap Kaca

Data 40 cm		Percobaan	y	x
		Ke-		
1	14:09:29.238 .	1	40	40
2	14:09:34.948 .	2	40	41
3	14:09:40.704 .	3	40	41
4	14:09:46.414 .	4	40	42
5	14:09:52.170 .	5	40	41
6	14:09:57.880 .	6	40	43
7	14:10:03.636 .	7	40	43
8	14:10:09.346 .	8	40	43
9	14:10:15.055 .	9	40	43
10	14:10:20.812 .	10	40	43
11	14:10:26.521 .	11	40	41
12	14:10:32.278 .	12	40	41
13	14:10:37.987 .	13	40	41
14	14:10:43.744 .	14	40	42
15	14:10:49.453 .	15	40	44
16	14:10:55.210 .	16	40	44
17	14:11:00.919 .	17	40	45
18	14:11:06.676 .	18	40	42
19	14:11:12.385 .	19	40	42
20	14:11:18.095 .	20	40	45

Data 40 cm		Percobaan	y	x
		Ke-		
21	14:11:23.852 .	21	40	45
40	14:11:29.561 .	40	40	46
40	14:11:35.318 .	40	40	46
24	14:11:41.027 .	24	40	41
40	14:11:46.784 .	40	40	45
40	14:11:52.493 .	40	40	45
27	14:11:58.250 .	27	40	43
28	14:12:03.959 .	28	40	40
29	14:12:09.669 .	29	40	40
30	14:12:15.425 .	30	40	41
31	14:12:21.135 .	31	40	41
32	14:12:26.891 .	32	40	44
33	14:12:32.601 .	33	40	40
34	14:12:38.357 .	34	40	46
35	14:12:44.067 .	35	40	46
36	14:12:49.823 .	36	40	46
37	14:12:55.533 .	37	40	44
38	14:13:01.289 .	38	40	45
39	14:13:06.999 .	39	40	42
40	14:13:12.709 .	40	40	45
41	14:13:18.465 .	41	40	44
42	14:13:24.175 .	42	40	42
43	14:13:29.931 .	43	40	40
44	14:13:35.641 .	44	40	41
45	14:13:41.397 .	45	40	41
46	14:13:47.107 .	46	40	46
40	14:13:52.863 .	40	40	45
48	14:13:58.573 .	48	40	45
49	14:14:04.329 .	49	40	45
50	14:14:10.039 .	50	40	44
40	14:14:15.748 .	40	40	42
52	14:14:21.505 .	52	40	40
53	14:14:27.214 .	53	40	40
54	14:14:32.971 .	54	40	40
55	14:14:38.680 .	55	40	46
56	14:14:44.421 .	56	40	46
57	14:14:50.131 .	57	40	40
58	14:14:55.887 .	58	40	40
59	14:15:01.597 .	59	40	44
60	14:15:07.353 .	60	40	45
61	14:15:13.063 .	61	40	40
62	14:15:18.819 .	62	40	45

Data 40 cm		Percobaan	y	x
		Ke-		
63	14:15:24.529 .	63	40	45
64	14:15:30.285 .	64	40	44
65	14:15:35.995 .	65	40	44
66	14:15:41.751 .	66	40	46
67	14:15:47.461 .	67	40	45
68	14:15:53.170 .	68	40	45
69	14:15:58.927 .	69	40	43
70	14:16:04.636 .	70	40	42
71	14:16:10.393 .	71	40	43
72	14:16:16.102 .	72	40	42
73	14:16:21.859 .	73	40	41
74	14:16:27.568 .	74	40	40
75	14:16:33.325 .	75	40	44
76	14:16:39.034 .	76	40	43
77	14:16:44.744 .	77	40	40
78	14:16:50.500 .	78	40	40
79	14:16:56.210 .	79	40	46
80	14:17:01.967 .	80	40	46
81	14:17:07.676 .	81	40	46
82	14:17:13.433 .	82	40	46
83	14:17:19.142 .	83	40	42
84	14:17:24.899 .	84	40	44
85	14:17:30.608 .	85	40	43
86	14:17:36.365 .	86	40	45
87	14:17:42.074 .	87	40	45
88	14:17:47.784 .	88	40	40
89	14:17:53.540 .	89	40	46
90	14:17:59.250 .	90	40	46
91	14:18:05.006 .	91	40	42
92	14:18:10.716 .	92	40	43
93	14:18:16.472 .	93	40	44
94	14:18:22.182 .	94	40	40
95	14:18:27.938 .	95	40	46
96	14:18:33.648 .	96	40	44
97	14:18:39.404 .	97	40	43
98	14:18:45.114 .	98	40	44
99	14:18:50.824 .	99	40	45
100	14:18:56.580 .	100	40	44

RIWAYAT PENULIS



Yusuf Afudin, lahir di Kota Balikpapan, Kalimantan Timur pada hari Jumat tanggal 5 Februari 1999. Merupakan anak pertama dari 2 saudara dari pasangan Purwanto dan Sriani. Menyelesaikan pendidikan di SD 004 Balikpapan Tengah pada tahun 2011, pada tahun yang sama melanjutkan pendidikan di SMP 3 Balikpapan dan tamat pada tahun 2014, kemudian melanjutkan ke SMA 2 Balikpapan dan selesai pada tahun 2017. Pada tahun 2017 penulis melanjutkan pendidikan ke perguruan tinggi negeri di Institut Teknologi Kalimantan, Karang Joang, Balikpapan. Mengambil Jurusan Teknologi Industri dan Proses, program studi Teknik Mesin.



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