

Lampiran 1 Kode Program Arduino

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1. //pin Ultrasonik
2. // front
3. #define echoPinF D2
4. #define trigPinF D9
5. int distanceF = 0;
6. // back
7. #define echoPinB D3
8. #define trigPinB D4
9. int distanceB = 0;
10. // left
11. #define echoPinL D5
12. #define trigPinL D6
13. int distanceL = 0;
14. // right
15. #define echoPinR D7
16. #define trigPinR D8
17. int distanceR = 0;
18.
19. void setup() {
20.   Serial.begin(9600);
21.   pinMode(trigPinF, OUTPUT);
22.   pinMode(echoPinF, INPUT);
23.   pinMode(trigPinB, OUTPUT);
24.   pinMode(echoPinB, INPUT);
25.   pinMode(trigPinL, OUTPUT);
26.   pinMode(echoPinL, INPUT);
27.   pinMode(trigPinR, OUTPUT);
28.   pinMode(echoPinR, INPUT);
29. }
30.
31. void loop() {
32.   // Counting Distance
33.   distanceF = getDistance(trigPinF, echoPinF);
34.   distanceB = getDistance(trigPinB, echoPinB);
35.   distanceL = getDistance(trigPinL, echoPinL);
36.   distanceR = getDistance(trigPinR, echoPinR);
37.
38.   // Printing Distance
39.   Serial.println(distanceF);
40.   Serial.println("|");
41.   Serial.println(distanceB);
42.   Serial.println("|");
43.   Serial.println(distanceL);
44.   Serial.println("|");
45.   Serial.println(distanceR);
46.   Serial.println("|");
47.   delay(1000);
48. }
49. // Function to count Distance
50. int getDistance(int trigPin, int echoPin) {
51.   digitalWrite(trigPin, HIGH);
52.   delayMicroseconds(10);
53.   digitalWrite(trigPin, LOW);
54.   unsigned long pulseTime = pulseIn(echoPin, HIGH);
55.   int distance = pulseTime / 58;
56.
57.   return distance;
58. }

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Lampiran 2 Kode Program Utama Aplikasi Parking Assistant



