**Riset Mobil Obstacle Avoidance**

1. Pengaturan 3 sensor ultrasonic

* Coding:

  digitalWrite(trigerPertama, LOW);

  delayMicroseconds(2);

  digitalWrite(trigerPertama, HIGH);

  delayMicroseconds(10);

  digitalWrite(trigerPertama, LOW);

  durasiKanan = pulseIn(echoPertama, HIGH);

  jarakKanan = (durasiKanan \* 0.0343)/2;

  Serial.print(jarakKanan);

  Serial.print(" ");

  if (jarakKanan < 10) {

    digitalWrite(ledijo, HIGH);

  } else {

    digitalWrite(ledijo, LOW);

  }

  delay(10);

  digitalWrite(trigerKedua, LOW);

  delayMicroseconds(2);

  digitalWrite(trigerKedua, HIGH);

  delayMicroseconds(10);

  digitalWrite(trigerKedua, LOW);

  durasiDepan = pulseIn(echoKedua, HIGH);

  jarakDepan = (durasiDepan \* 0.0343)/2;

  Serial.print(jarakDepan);

  Serial.print(" ");

  if(jarakDepan < 10) {

    digitalWrite(ledmerah, HIGH);

  } else {

    digitalWrite(ledmerah, LOW);

  }

  delay(10);

  digitalWrite(trigerKetiga, LOW);

  delayMicroseconds(2);

  digitalWrite(trigerKetiga, HIGH);

  delayMicroseconds(10);

  digitalWrite(trigerKetiga, LOW);

  durasiKiri = pulseIn(echoKetiga, HIGH);

  jarakKiri = (durasiKiri \* 0.0343)/2;

  Serial.print(jarakKiri);

  Serial.println("");

  if (jarakKiri < 10) {

    digitalWrite(ledkuning, HIGH);

  } else {

    digitalWrite(ledkuning, LOW);

  }

  delay(10);

* Triger dinyalakan secara bergantian, tetapi echo dinyalakan bersamaan
* Wiring
* VCC ke 5 volt
* GND ke ground
* TRIG ke pin PWM atau analog
* ECHO ke pin Analog