PROGRAM

```
#include <Servo.h>

#define ECHOPIN A5                    // Pin to receive echo pulse
#define TRIGPIN A4                    // Pin to send trigger pulse

Servo myservo;
const int proxSensor1=2;
const int proxSensor2=4;
const int buzzerPin = 3;
const int tx = 6 ;


int status1=0;
void setup (){
  Serial.begin(9600);
  //pinMode(13, OUTPUT);
  myservo.attach(5);
  pinMode(proxSensor1, INPUT);
  pinMode(proxSensor2, INPUT);
  pinMode(buzzerPin, OUTPUT);
  pinMode(tx,OUTPUT);
   pinMode(ECHOPIN, INPUT);
  pinMode(TRIGPIN, OUTPUT);


}
```

```
void loop(){
 // digitalWrite(tx,HIGH);
  jarak2();
 if(digitalRead(proxSensor1)==HIGH && digitalRead(proxSensor2)==LOW && status1==0)
 {
    myservo.write(10);
 delay(1000);
  Serial.println("nonaktif");
   //digitalWrite(13, LOW);
   Serial.println("SENSOR KANAN");
   Serial.println("on");
   //digitalWrite(buzzerPin,HIGH);
   beep(500);

   status1==1;

  //  Serial.print(jarak);

 }

 else if(digitalRead(proxSensor1)==LOW && digitalRead(proxSensor2)==HIGH )//&& status1==1)
 {
    myservo.write(90);
 delay(1000);

  //  Serial.print(jarak);
 Serial.println("SENSOR KIRI");
 digitalWrite(buzzerPin,LOW);
 Serial.println("off");
```

```
  beepmati(50);
  status1==0;
  }



}



void beep(unsigned char delayms)
  {

    analogWrite(buzzerPin,20);
    delay(500);

  }

void beepmati(unsigned char delayms)
  {

    analogWrite(buzzerPin,0);
   // delay(500);
   // analogWrite(buzzerPin,0);
   // delay(500);

  }

void jarak2()
{
  int distance, jarak, posisi=0,i;
```

```
digitalWrite(TRIGPIN, LOW);                // Set the trigger pin to low for 2uS
delayMicroseconds(2);
digitalWrite(TRIGPIN, HIGH);               // Send a 10uS high to trigger ranging
delayMicroseconds(10);
digitalWrite(TRIGPIN, LOW);                // Send pin low again
distance = pulseIn(ECHOPIN, HIGH);       // Read in times pulse
jarak = distance/58;                    // Calculate distance from time of pulse
Serial.print(jarak);
Serial.println(" cm");

 if (jarak<=20)

 {
   digitalWrite(tx,LOW);
   Serial.println("bahaya");



  //stop1();
  //baca();
  delay(4000);
  }

 if (jarak>=22)

 {
   digitalWrite(tx,HIGH);
   Serial.println("bahaya");
```

```
    //stop1();
    //baca();
    //delay(200);
    }
}
```