const int analogInPin = A0; // Analog input pin that the receiver is attached to

int sensorValue = 0; // value read from the receiver

#define pin1 8

#define pin2 9

#define pin3 10

#define pin4 11

void setup() {

// initialize serial communications at 9600 bps:

Serial.begin(9600);

//initialize the indicator LED:

pinMode(13, OUTPUT);

pinMode(pin1, OUTPUT);

pinMode(pin2, OUTPUT);

pinMode(pin3, OUTPUT);

pinMode(pin4, OUTPUT);

}

void loop() {

// read the analog in value:

sensorValue = analogRead(analogInPin);

// print the results to the serial monitor:

Serial.print("\nsensor = ");

Serial.print(sensorValue);

//the threshold found fron analog In Out program was when object is detected, the sensor value is below 100

//set the threshold whihc you get

//the threshold varies for different sets of emitter-receiver pairs

if(sensorValue < 100){ //checks if object is there or not

digitalWrite(13, HIGH);

Serial.print("\nObject Detected");

digitalWrite(pin1,HIGH);

digitalWrite(pin2,LOW);

digitalWrite(pin3,HIGH);

digitalWrite(pin4,LOW);

}

else{

digitalWrite(13, LOW);

Serial.print("\nNo object in Front");

digitalWrite(pin1,LOW);

digitalWrite(pin2,LOW);

digitalWrite(pin3,LOW);

digitalWrite(pin4,LOW);

}

delay(500);

}