Assignment 2

#include<Servo.h>

Servo myservo;

int trigpin=10;

int echopin=9;

void setup()

{

  pinMode(trigpin,OUTPUT);

  pinMode(echopin,INPUT);

  myservo.attach(13);

  Serial.begin(9600);

}

void loop()

{

  digitalWrite(trigpin,HIGH);

  delay(1000);

  digitalWrite(trigpin,LOW);

  int duration=pulseIn(echopin,HIGH);

  int distance=(duration\*0.034)/2;

  Serial.println("the distance is=");

  Serial.println(distance);

  delay(1000);

  if(distance>50)

  {

    myservo.write(0);

    Serial.println("DOOR IS CLOSED");

  }

  else

  {

    myservo.write(90);

    Serial.println("DOOR IS OPENED");

    delay(5000);

}

}