ASSIGNMENT-2

#include<Servo.h>

Servo myservo;

void setup()

{

pinMode(7,OUTPUT);

pinMode(5,INPUT);

myservo.attach(4);

Serial.begin(9600);

}

void loop()

{

digitalWrite(7,HIGH);

delay(1000);

digitalWrite(7,LOW);

int duration=pulseIn(5,HIGH);

int distance=(duration\*0.034)/2;

Serial.println("the distance is");

Serial.print(distance);

if(distance<=50)

{

myservo.write(180);

Serial.println("door opened");

delay(1000);

}

else

{

myservo.write(0);

Serial.println("door closed");

delay(1000);

}

}