ASSIGNMENT 2

AUTOMATIC GARBAGE LOCK SYSTEM USING SERVO MOTOR AND ULTRASONIC SENSOR

#include<Servo.h>

int distance;

int duration;

int trigpin=7;

int echopin=5;

int range=50;

Servo open;

void setup()

{Serial.begin(9600);

pinMode(trigpin,OUTPUT);

pinMode(echopin,INPUT);

open.attach(9);

open.write(0);

}

void loop()

{ door( );

if(distance < range)

open.write(90);

else

open.write(0);

delay(1000);

}

void door()

{

digitalWrite(trigpin,HIGH);

delay(1000);

digitalWrite(trigpin,LOW);

duration=pulseIn(echopin,HIGH);

distance=(duration\*0.034)/2;

Serial.println("the distance is ");

Serial.println(distance);

}