**1st Part of the project**

// 2 Ultrasonic sensors and a buzzer

int ultra01trig=2;

int ultra01echo=3;

int ultra02trig=4;

int ultra02echo=5;

int ultrabuzzer=6;

void setup() {

Serial.begin (9600);

pinMode(ultra01trig, OUTPUT);

pinMode(ultra01echo, INPUT);

pinMode(ultra02trig, OUTPUT);

pinMode(ultra02echo, INPUT);

pinMode(ultrabuzzer, OUTPUT);

}

void loop() {

long durations1, distances1;

digitalWrite(ultrabuzzer,LOW);

digitalWrite(ultra01trig, LOW); // Added this line

delayMicroseconds(2); // Added this line

digitalWrite(ultra01trig, HIGH);

delayMicroseconds(10); // Added this line

digitalWrite(ultra01trig, LOW);

duration1 = pulseIn(ultra01echo, HIGH);

distance1 = (duration1/2) / 29.1;

Serial.print ( "Sensor1 ");

Serial.print ( distances1);

Serial.println("cm");

if(distance1 < 50)

{

digitalWrite(ultrabuzzer, HIGH);

delay(100);

}

digitalWrite(echoPin1, LOW);

delay(250);

long durations2, distances2;

digitalWrite(ultra02trig, LOW); // Added this line

delayMicroseconds(2); // Added this line

digitalWrite(ultra02trig, HIGH);

delayMicroseconds(10); // Added this line

digitalWrite(ultra02trig, LOW);

durations2 = pulseIn(ultra02echo, HIGH);

distances2= (durations2/2) / 29.1;

Serial.print("Sensor2 ");

Serial.print(distances2);

Serial.println("cm");

if(distances2 < 40)

{

digitalWrite(ultrabuzzer, HIGH);

delay(1000);

}

digitalWrite(ultra02echo, LOW);

delay(2500);

}