ASSIGNMENT-1
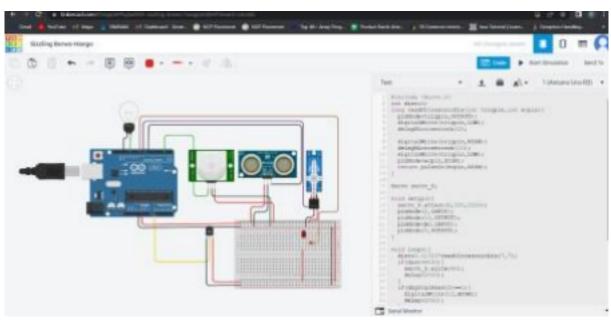
Assignment Date	20 October 2022
Student Name	V.Logesh
Student Roll Number	73151921027
Maximum Marks	2 Marks

QUESTION-1:

Build a smart home in Thinkercad with 2 sensors, an Led, buzzer and submit it.

SCREENSHOT :

CODE:

```
#include <Servo.h>

int dist=0;

long readUltrasonicDis(int trigpin,int ecpin){

pinMode(trigpin,OUTPUT);

digitalWrite(trigpin,LOW);

delayMicroseconds(2);


digitalWrite(trigpin,HIGH);

delayMicroseconds(10);

digitalWrite(trigpin,LOW);

pinMode(ecpin,HIGH);
```

```arduino
  return pulseIn(ecpin,HIGH);

}
Servo servo_8;

void setup(){

servo_8.attach(8,500,2500);

pinMode(2,INPUT);

pinMode(12,OUTPUT);

pinMode(A0,INPUT);

pinMode(9,OUTPUT);

}

void loop(){

dist=0.01723*readUltrasonicDis(7,7);

if(dist<=100){

servo_8.write(90);

delay(2000);

}

if(digitalRead(2)==1){

digitalWrite(12,HIGH);

delay(2000);

}

else{

digitalWrite(12,LOW);

delay(2000);

}

if(analogRead(A0)>200){

digitalWrite(9,HIGH);

delay(2000);

}
else{

digitalWrite(9,LOW);
delay(2000)
```

```
;}

}
```