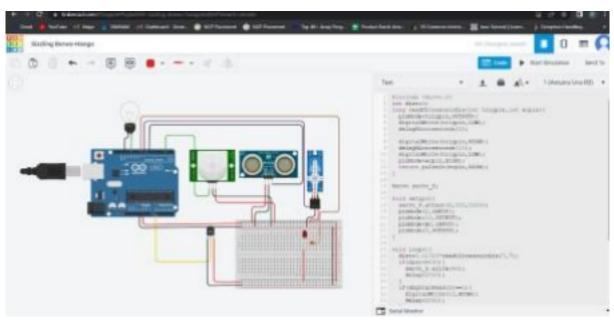
ASSIGNMENT-1

Assignment Date	20 October 2022
Student Name	P.Thinakaran
Student Roll Number	73151921058
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);

```
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 \le 100){
servo_8.write(90);
delay(2000);
}
if(digitalRead(2)==1){
digitalWrite(12,HIGH);
delay(2000);
}
else{
digitalWrite(12,LOW);
delay(2000);
}
if (analog Read (A0) > 200) \{\\
digitalWrite(9,HIGH);
delay(2000);
}
else{
digitalWrite(9,LOW);
delay(2000)
```

;}

}