Assignment -1

Assignment Date	13 September 2022
Student Name	Devakumar M
Student Roll Number	611219106011
Maximum Marks	2 Marks

Question-1:

Make a Smart Home in Tinkercad, using 2+ sensors, Led, Buzzer in single code and circuit.

Solution:
```
void setup()
{
pinMode(7, OUTPUT);
Serial.begin(9600);
pinMode(8,OUTPUT);
pinMode(2,OUTPUT);
}
void loop()
{
double a=analogRead(A0);
Serial.print("Adc Value:");
Serial.println(a);
double v= a/1024;
double tvolt= v*5;
Serial.print("temp value voltage:");
Serial.println(tvolt);
delay(1000);
double o = tvolt - 0.5;
double t= o*100;
Serial.print("Temperature is :");
Serial.println(t);
delay(1000);
if (t>=30)
{
digitalWrite(7,HIGH);
delay(1000);
}
else
{
digitalWrite(7,LOW);
delay(1000);
}i
nt m = digitalRead(4);
Serial.print("Motion detector");
Serial.println(m);
if(m == 1){
```

```
Serial.println("Motion Occur");
digitalWrite(8,HIGH);
digitalWrite(2,HIGH);
}
else{
Serial.println("No");
digitalWrite(8,LOW);
digitalWrite(2,LOW);
}
}
```

Circuit: