Assignment -1

Assignment Date	21 September 2022
Student Name	DHIVAKARAN.M
Student Roll Number	710419106006
Maximum Marks	2 Marks

Question-1:

Make a smart home in tinkercad using 2+sensors,led,buzzer in single code and circuit

Solution:

```
float x,y,z,temp;
 void setup() { pinMode(8, INPUT);
 pinMode(5, OUTPUT);
 pinMode(6, OUTPUT);
pinMode(A5, INPUT);
 pinMode(A4, INPUT);
 Serial.begin(9600); } void loop() { x= digitalRead(8);
 y= analogRead(A5);
 z= analogRead(A4);
Serial.println(x);
 Serial.println(y);
 Serial.println(z);
 temp = (double)z / 1024;
 temp = temp * 5;
 temp = temp - 0.5;
temp = temp * 100;
if ( (x>0) )
 { if ((y<550)&&(temp>30))
```

```
{ digitalWrite(5, HIGH);
 digitalWrite(6, HIGH); }
 else if((y<550)&&(temp550)&&(temp>30))
 { digitalWrite(5, LOW);
digitalWrite(6, HIGH); }
 else if((y>550)&&(temp>30))
{
digitalWrite(5,LOW);
digitalWrite(6,high);
}
Elseif((y>550)&&(temp<30))
{
digitalWrite(5,LOW);
digitalWrite(5,LOW);
}
}
else
{
digitalWrite(5,LOW);
digitalWrite(6,LOW);
}
}
```