**Assignment -1**

Tinkercad Task

Assignment Date

20 September 2022

Student Name

Sofia B

Student Roll Number

111519106148

Maximum Marks

2 Marks

**Question-1:**

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

**Solution:**

void setup()

{

Serial.begin(9600);

pinMode(2, INPUT);

pinMode(12, OUTPUT);

}

void loop()

{

int motion=digitalRead(2);

double temperature=analogRead(A2);

double detectedtemp=(((temperature/1024)\*5)-0.5)\*100;

if(motion==1)

{

tone(12,400);

delay(1000);

noTone(12);

delay(1000);

}

if(detectedtemp>60.00)

{

tone(12,300);

delay(1000);

noTone(12);

delay(1000);

}

}

**Demo Link:**

You can follow this link to tinker the mentioned project

IBM Assignment - Temperature and PIR Sensor Project **https://www.tinkercad.com/things/6JYWYptqIsY?sharecode=IPwBShWYZTTDAjiW3u-qDW5bzebwqtXcEUz7Lufn6xM**