

Assignment -1

Assignment Date	18 September 2022
Student Name	Elakiya GJ
Student Roll Number	193002026
Maximum Marks	2 Marks

Question-1:

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

Program:

```
#include <Servo.h> int TEMP = 0; int
GAS = 0; int
MOTION = 0; Servo servo_2; void setup()
{
  pinMode(A0, INPUT);
  pinMode(A1, INPUT); pinMode(6, INPUT);
  Serial.begin(9600); pinMode(4,
  OUTPUT); servo_2.attach(2, 500, 2500);
}
void loop()
{
  TEMP = (-40 + 0.488155 * (analogRead(A0) - 20));
  GAS = analogRead(A1);
  MOTION = digitalRead(6); if
  (TEMP > 80 && GAS > 150) {
    Serial.println("FIRE ALERT !!!!!!!!!!!!!!!!!!!!!"); digitalWrite(4, HIGH); if (MOTION == 1) {
    Serial.println("DOOR OPEN >>>>>"); servo_2.write(90);
    }
  }
  else
  {
    servo_2.write(0);
  }
  } else { digitalWrite(4, LOW);
```

```

servo_2.write(0);
}
delay(10);
}

```

