Assignment -1

Assignment Date	18 September 2022
Student Name	Mr. SENTHILKUMAR. V
Student Roll Number	210819106066
Maximum Marks	2 Marks

Question-1:

Build a code for Arduino board

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);
}
```