Assignment -1

Assignment Date	18 September 2022
Student Name	Ms. Brundhalakshmi A
Student Roll Number	621319106040
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);
}
```

