

## Assignment -1

Assignment Date	18 September 2022
Student Name	Mr.VASANTH.M.S
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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);
}

```

