

ASSIGNMENT - 1

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Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM
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Question-1:

Build a code for Arduino board

```
#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);
}

```

