## Assignment -1

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## 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);
```

