

Assignment -1

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Maximum marks	2 marks

Question-1:

Build a code for Arduino board Program:

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); }
```

