

## **ASSIGNMENT-3 PYTHON CODE FOR RASPBERRY PI**

PROJECT: Hazardous Area Monitoring for Industrial Plant

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### **LED BLINKING CODE:**

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
while True:
    GPIO.output(8, GPIO.HIGH)
    sleep(1)
    GPIO.output(8, GPIO.LOW)
    sleep(1)
```

## **TRAFFIC LIGHT CODE:**

```
from gpiozero import LED from time import sleep
```

```
red = LED(22)
```

```
yellow = LED(27)
```

```
green = LED(17)
```

```
while True:
```

```
    red.on()
```

```
    sleep(15)
```

```
    red.off()
```

```
    sleep(1)
```

```
    yellow.on()
```

```
    sleep(10)
```

```
    yellow.off()
```

```
    sleep(1)
```

```
    green.on()
```

```
    sleep(10)
```

```
    green.off()
```

```
    sleep(1)
```