

**HAZARDOUS AREA MONITORING FOR  
INDUSTRIAL PLANTS POWERED BY IOT**

**SUBMITTED BY**

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## Question:

Write python code for blinking LED and Traffic lights for Raspberry pi.

### CODE 1:

#### LED BLINKING

```
import RPi.GPIO as GP from time import sleep
GP.setwarnings(False)
GP.setmode(GP.BOARD)
GP.setup(8,GP.OUT,initial=GP.LOW)
while True:
    #infinite loop GP.output(8, GPIO.HIGH)
    # Turn on  print("The LED is ON")
    sleep(2)          # Sleep for 2 second
    GP.output(8, GPIO.LOW)
    # Turn off  print("The LED is OFF")
    sleep(2)          # Sleep for 2 second
```

### CODE 2:

#### TRAFFIC LIGHTS FOR RASPBERRY PI

```
From gpiozero import LED
From time import sleep
```

Red= LED(17) #pin numbers connected to Led's

Aster=(22)

Green=(27)

While True:

Red.on()       #RED light

Print("Red light is ON")

For I in range(100,0,-1):

Print("Remaining time: ",i)

Sleep(1)

Red.off()

Aster.on() # ASTER light

Print("Yellow light is ON")

For I in range(5,0,-1):

Print("Remaining time: ",i)

Sleep(1)

Aster.off()

Green.on #GREEN light

Print("Green light is ON")

For I in range(30,0,-1):

Print("Remaining time: ",i)

Sleep(1)

Green.off()