

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 l in range(100,0,-1):  
        Print(" Remaining time: " ,i)  
        Sleep(1)  
    Red.off()  
    Aster.on() # ASTER light  
    Print(" Yellow light is ON" )  
    For l 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()
```