

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()
```