# 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 for 2 second
  sleep(2)
 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()