HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANTS POWERED BY IOT

SUBMITTED BY

SWETHA V

BACHELOR OF ENGINEERING ELECTRONICS AND COMMUNICATION ENGINEERING

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()
```