

PROBLEM STATEMENT :

IOT BASED REAL TIME RIVER WATER
QUALITY MONITORING AND CONTROL SYSTEM

DOMAIN :

INTERNET OF THINGS

ASSIGNMENT 3 :

Python code for blinking led and traffic lights for
raspberry pi

By,

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1. LED

```
import RPi.GPIO as GPIO

from time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)

value to low (off)

while True:

    GPIO.output(8, GPIO.HIGH)

    sleep(5)

    GPIO.output(8, GPIO.LOW)

    sleep(5)
```

2. TRAFFIC LIGHT

```
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep

buzzer = Buzzer(16)

button = Button(20)

lights = TrafficLights(24, 7, 5)

while True:

    button.wait_for_press()

    buzzer.on()

    light.green.on()

    sleep(3)

    lights.amber.on()

    sleep(3)

    lights.red.on()
```

sleep(3)

lights.off()

buzzer.off()