

ASSIGNMENT 3

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Project Title	<i>Real-Time River Water Quality Monitoring and Control System</i>
Maximum Marks	2 marks

**TOPIC: PYTHON CODE FOR BLINKING LED AND
TRAFFIC LIGHTS FOR PASPERRY PI**

LED BLINKING CODE :

```
import RPI.GPIO as GPIO
from time import sleep
GPIO.setwarnings(False) GPIO.setmode(GPIO.BOARD)
GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
```

```
while True:
    GPIO.output(8, GPIO.HIGH)
    sleep(1)
    GPIO.output(8, GPIO.LOW)
    sleep(1)
```

TRAFFIC LIGHT CODE:

```
from gpiozero import LED
from time import sleep
red = LED(22)
yellow = LED(27)
green = LED(17)
```

```
while True:
    red.on()
    sleep(15)
    red.off()
    sleep(1)
    yellow.on()
    sleep(10)
    yellow.off()
    sleep(1)
    green.on()
    sleep(10)
    green.off()
    sleep(1)
```