

ASSIGNMENT 3

NAME: DHARANIKUMAR

Project Name: Real-Time River Water Monitoring and Control System

Python code for traffic lights:

CODE:

```
from gpiozero import
LED from
time import sleep
lights = TrafficLights(27,
5, 8)
while True:
light.green.on()
sleep(1)
lights.amber.on()
sleep(1)
lights.red.on()
sleep(1) lights.off()
```

Python code for blinking of LED light: CODE:

```
import RPi.GPIO as GPIO
import time
LED_PIN = 15
GPIO.setmode(GPIO.BCM)
GPIO.setup(LED_PIN,
GPIO.OUT)
while True:
GPIO.output(LED_PIN,
GPIO.HIGH)
time.sleep(1)
GPIO.output(LED_PIN,
GPIO.LOW)
time.sleep(1)
GPIO.cleanup()
```