

ASSIGNMENT 3

Write python code for blinking LED and traffic lights for raspberry pi.

```
import RPi.GPIO as GPIO

import time

try:

def lightTraffic(led1, led2, led3, delay ):

GPIO.output (led1, 1)

time.sleep(delay)

GPIO.output (led1, 0)

GPIO.output (led2, 1)

time.sleep(delay)

GPIO.output (led2, 0)

GPIO.output (led3, 1)

time.sleep(delay)

GPIO.output (led3, 0)

GPIO.setmode (GPIO.BCM)

button = 19

GPIO.setup(button, GPIO.IN, pull_up_down=GPIO.PULL_UP)

ledGreen = 16

ledYellow= 12

ledRed = 23

GPIO.setup(ledGreen, GPIO.OUT)

GPIO.setup(ledYellow, GPIO.OUT)

GPIO.setup(ledRed, GPIO.OUT) while True:

input_state= GPIO.input (button)

if input_state == False:

print('Button Pressed') light Traffic(ledGreen, ledYellow, ledRed
```

else:

GPIO.output (ledGreen, 0)

GPIO.output (ledYellow, 0) GPIO.output (ledRed, 0)

GPIO.cleanup()