ASSIGNMENT 3

PROBLEM

Write python code for blinking LED and Traffic lights for Raspberry pi.

LED INTERFACE

```python
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)
GPIO.cleanup()
```

TRAFFIC LIGHTS INTERFACE

```python
import RPi.GPIO as GPIO
import time
GPIO.setmode(GPIO.BOARD)

red = 13
yellow = 15
green = 16
GPIO.setup(red, GPIO.OUT)
GPIO.setup(yellow, GPIO.OUT)
GPIO.setup(green, GPIO.OUT)

while True:
    GPIO.output(red, True)  # Red is On
    sleep(10)
    GPIO.output(red,False)

    GPIO.output(yellow, True)  # Yellow is On
    sleep(10)
    GPIO.output(yellow,False)

    GPIO.output(green, True)  # Green is On
    sleep(10)
    GPIO.output(green,False)
GPIO.cleanup()
```