Assignment-3

Program for Traffic light and blinking LED

<u>Code:</u>

#PROGRAM FOR TRAFFIC LIGHT

```
import RPi.GPIO as GPIO
import time
#assign numbering for the GPIO using BCM
GPIO.setmode(GPIO.BCM)
GPIO.setup(4,GPIO.OUT)#green led
GPIO.setup(3,GPIO.OUT)#yellow led
GPIO.setup(2,GPIO.OUT)#red led
while True:
    #code for green led
    GPIO.output(4,True)
    time.sleep(1)
    GPIO.OUTPUT(4,False)

    #code for yellow led
    GPIO.output(3,True)
    time.sleep(1)
    GPIO.OUTPUT(3,False)

    #code for red led
```

```python
        GPIO.output(2,True)
        time.sleep(1)
        GPIO.OUTPUT(2,False)
GPIO.cleanup()
```

#PROGRAM FOR BLINKING AN LED

```python
import RPi.GPIO as GPIO
import time
#assign numbering for the GPIO using BCM
GPIO.setmode(GPIO.BCM)
#assingn number for the GPIO using Board
#GPIO.setmode(GPIO.BOARD)

cnt = 0
GPIO.setup(4, GPIO.OUT)
while True:
    if  cnt == 0 :
        GPIO.output(RED_LED, False)
        cnt = 1
    else:
        GPIO.output(RED_LED, True)
        cnt = 0
        time.sleep(1)
GPIO.cleanup()
```