ASSIGNMENT-3

Write a python code for blinking LED and Traffic lights for Raspberry Pi.

Blinking LED

```
import RPi.GPIO as GPIO
import time
#assign number for the GPIO using BCM
GPIO.setmode (GPIO.BCM)
#assign number for the GPIO using Board
GPIO.setmode(GPIO.BOARD)
cnt=0
MAIL CHECK FREQ=1
#change LED status every 1 seconds
RED LED=4
GPIO.setup(RED LED,GPIO.OUT)
while True
if cnt==0:
GPIO.output(RED LED,False)
cnt=1
else:
GPIO.output(RED LED,True)
cnt=0:
time.sleep(MAIL_CHECK_FREQ)
GPIO.cleanup()
```

Traffic light

```
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.PUD_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)
```