

LED BLINKING

```
import RPi.GPIO as GPIO

import time

GPIO.setmode(GPIO.BCM)

cnt = 0

MAIL_CHECK_FREQ = 1

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()
```

CODE FOR 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.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)

    if input_state == False:

        print('Button Pressed')

        lightTraffic(ledGreen, ledYellow, ledRed, 1)

    else:

        GPIO.output(ledGreen, 0)

        GPIO.output(ledYellow, 0)

        GPIO.output(ledRed, 0)

except KeyboardInterrupt:

    print ("You've exited the program")

finally:

    GPIO.cleanup()
```

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