ASSIGNMENT 3

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

LED:

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

MAIL_CHECK_FREQ = 1

RED_LED = 4

GPIO.setup(RED_LED, GPIO.OUT)

while True:

ifcnt == 0 :

GPIO.output(RED_LED, False)

cnt = 1

else:

```python
GPIO.output(RED_LED, True)

cnt = 0


time.sleep(MAIL_CHECK_FREQ)
GPIO.cleanup()
```

TRAFFIC LIGHT:

```python
from gpiozero import Button, TrafficLights, Buzzer
from time import sleep


buzzer = Buzzer(15)

button = Button(21)

lights = TrafficLights(25, 8, 7)


while True:
        button.wait_for_press()

        buzzer.on()

        light.green.on()

        sleep(1)

        lights.amber.on()

        sleep(1)
```

```
lights.red.on()
sleep(1)
lights.off()
buzzer.off()
```