Assignment-3

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

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()

        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()