

Assignment 3:

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

Only python code is enough, no need to execute in raspberry pi.

Note: you are allowed to use web search and complete the assignment.

```
import RPi.GPIO as GPIO
import time
import signal
import sys

# Setup
GPIO.setmode(GPIO.BCM)
GPIO.setup(9, GPIO.OUT)
GPIO.setup(10, GPIO.OUT)
GPIO.setup(11, GPIO.OUT)

# Turn off all lights when its end
def allLightsOff(signal, frame):
    GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, False)
    GPIO.cleanup()
    sys.exit(0)
signal.signal(signal.SIGINT, allLightsOff)

# Loop for led light
while True:

    # RED LIGHT
    GPIO.output(9, True)
    time.sleep(3)

    # RED AND YELLOW
    GPIO.output(10, True)
    time.sleep(1)

    # GREEN LIGHT
    GPIO.output(9, False)
    GPIO.output(10, False)
    GPIO.output(11, True)
    time.sleep(5)

    # YELLOW LIGHT
    GPIO.output(11, False)
    GPIO.output(10, True)
    time.sleep(2)

    #YELLOW OFF (red start from first loop)
```

```
GPIO.output(10, False)
```