

ASSIGNMENT-3**Task Given:****Write Python code for blinking LED and Traffic Lights for Raspberry pi.**

```
import RPi.GPIO as GPIO
import time
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 user ends demo
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 will forever
while True:
    # Red
    GPIO.output(9, True)
    time.sleep(3)
    # Red and amber
    GPIO.output(10, True)
    time.sleep(1)
    # Green
    GPIO.output(9, False)
```

```
GPIO.output(10, False)
GPIO.output(11, True)
time.sleep(5)    #
Amber
    GPIO.output(11, False)
GPIO.output(10, True)
time.sleep(2)
    # Amber off (red comes on at top of loop)
    GPIO.output(10, False)
```