

# **PYTHON CODE FOR BLINKING LED AND TRAFFIC LIGHTS FOR RASPBERRY PI**

## **CODE FOR BLINKING LIGHT:**

```
import time

import RPi.GPIO as GPIO    ## Import GPIO library
GPIO.setmode(GPIO.BOARD)   ## Use board pin numbering
GPIO.setup(11, GPIO.OUT)   ## Setup GPIO Pin 11 to OUT

while True:

    GPIO.output(11,True) ## Turn on Led

    time.sleep(1)    ## Wait for one second

    GPIO.output(11,False) ## Turn off Led

    time.sleep(1)
```

## **FOR TRAFFIC LIGHT:**

```
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 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 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)

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