## **ASSIGNMENT-3**

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

## **PROGRAM:**

## 1.LED BLINKING IN PYTHON:

```
import RPi.GPIOasGPIO

from time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

GPIO.setup(8,GPIO.OUT,initial=GPIO.LOW)

while True:

GPIO.output(8,GPIO.HIGH)

sleep(1)

GPIO.output(8,GPIO.LOW)

Sleep(1)
```

## **2.TRAFFIC LIGHT IN PYTHON:**

```
import RPi.GPIO as GPIO

import time

import signal

import sys

GPIO.setmode(GPIO.BCM)

GPIO.setup(9,GPIO.OUT)

GPIO.setup(10,GPIO.OUT)

GPIO.setup(11,GPIO.OUT)

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)
while True:
   GPIO.output(9,True) #red
   time.sleep(3)
   GPIO.output(10,True) #Red and amber
   time.sleep(1)
   GPIO.output(9,False)
                          #Green
   GPIO.output(10,False)
   GPIO.output(11,True)
   time.sleep(5)
  GPIO.output(11,False) #Amber
   GPIO.output(10,True)
time.sleep(2)
   GPIO.output(10,False) #Amber off (red comes on at top of loop)
```