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)
```