ASSIGNMENT-3

```
import RPI.GPIO as GPIO

 time import sleep

GPIO.setwarnings(False)

GPIO.setmode(GPIO.BOARD)

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

#Set pin 8 to be an output pin and set initial value to low(off) while

True:                          #Run forever

     GPIO.output(8,GPIO.HIGH)              #Turn on

sleep(1)                              #Sleep for 1 second

GPIO.output(8,GPIO.LOW)          #Turn off sleep(1)
```

#Sleep for 1 second **For Traffic Lights:**

```
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,framer):

GPIO.output(9,False)
```

```python
    GPIO.output(10,False)
    GPIO.output(11,False)
GPIO.cleanup()     sys.exit(0)
signal.signal(signal.SIGINT,allLightsOff)

#Loop forever while True:
GPIO.output(9,True) #Red

    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)
```