ASSIGNMENT 3

1. Blinking LED

```
import RPi.GPIO as GPIO
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 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, 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 yellow
GPIO.output(10,
True) time.sleep(1)
#Yellow
GPIO.output(11, False)
GPIO.output(10, True)
time.sleep(2)
#Yellow off(red comes on at top of loop)
GPIO.output(10, False)
```

```
#Green
GPIO.output(9, False)
GPIO.output(10, False)
GPIO.output(11, True)
time.sleep(5)
```