

ASSIGNMENT-3

BlinkingLights.py

```
import RPi.GPIO as GPIO from
time import sleep

PIN=8

GPIO.setmode(GPIO.BCM)GPIO.setup(
PIN, GPIO.OUT)

GPIO.output(PIN,GPIO.LOW)

while True:

    GPIO.output(8,GPIO.HIGH)
    sleep(2)
    GPIO.output(8,GPIO.LOW)
    sleep(2)
```

TrafficLights.py

```
import RPi.GPIO as GPIO from
time import sleep
from signal, SIGINT import signal import sys

GPIO.setmode(GPIO.BCM)GPIO.setup(
9, GPIO.OUT) # RED
GPIO.setup(10,GPIO.OUT)#AMBER
GPIO.setup(11, GPIO.OUT) # GREEN
```

```
def allLightsOff(signal, frame): GPIO.output(9,
False) GPIO.output(10, False)
GPIO.output(11, False) GPIO.cleanup()
sys.exit(0)
```

```
signal(SIGINT, allLightsOff) # Turns off all lights on interruption
```

```
while True:
```

```
    # Turn on Red
```

```
    GPIO.output(9, True)
```

```
    sleep(10)
```

```
    # Turn off Red and enable Green
```

```
    GPIO.output(9, False) GPIO.output(11,
True)
```

```
    sleep(5)
```

```
    # Turn off Green and enable Amber
```

```
    GPIO.output(11, False)
```

```
    GPIO.output(10, True)
```

```
    sleep(2)
```

```
    # Turn off Amber
```

```
    GPIO.output(10, False)
```

```
    # Loop again from red
```

