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)

Traffic Lights.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 of all lights on interruption
while True:
       # Turn on Red
       GPIO.output(9, True)
       sleep(10)
       # Turn of 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)
       # Loops again from red
```