ASSIGNMENT 3:

1)BLINKING AN 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(2)
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


GPIO.setmode(GPIO.BCM)

GPIO.setup(9, GPIO.OUT)

GPIO.setup(10, GPIO.OUT)

GPIO.setup(11, GPIO.OUT)

Def LightsOff(signal, frame):
```

```
        GPIO.output(9, False)

        GPIO.output(10, False)

        GPIO.output(11, False)

        GPIO.cleanup()

        Sys.exit(0)

        Signal.signal(signal.SIGINT, LightsOff)

    While True:

        GPIO.output(9, True)

        Time.sleep(3)


        GPIO.output(10, True)

        Time.sleep(1)


        GPIO.output(9, False)

        GPIO.output(10, False)

        GPIO.output(11, True)

        Time.sleep(5)


        GPIO.output(11, False)

        GPIO.output(10, True)

        Time.sleep(2)


        GPIO.output(10, False)
```