ASSIGNMENT 3

PYTHON CODE FOR BLINKING LED(RASPBERRY PI):

```
import Time

import RPI.GPIO as GPIO

GPIO.setmode(GPIO.BOARD)

GPIO.setup(11,GPIO.OUT)

GPIO.setup(12,GPIO.OUT)

GPIO.SETUP(13,GPIO.OUT)

while True:

    GPIO.output(11,True) ##Turn on Red Led

    Time.sleep(1) ##wait for one second

    GPIO.output(11,False) ##Turn off Red Led

    Time.sleep(1) ##wait for one second

    GPIO.output(12,True) ##Turn on yellow Led

    Time.sleep(1) ##wait for one second

    GPIO.output(12,False) ##Turn off yellow Led

    Time.sleep(1)

    GPIO.output(13,True) ##Turn on green Led

    Time.sleep(1)

    GPIO.output(13,False) ##Turn off green Led

    Time.sleep(1)
```

PYTHON CODE FOR TRAFFIC LED(RASPBERRY PI):

```
From gpiozero import button,TrafficLights,Buzzer

From time import sleep

Buzzer=Buzzer(15)

Button=Button(21)

Lights=TrafficLights(25,8,7)

while True:

    Button.wait_for_press()

    Buzzer.on()

    Lights.green.on() ##on the green led

    sleep(1) ##wait for one second

    Lights.amber.on() ##on the yellow led

    sleep(1) ##wait for one second

    Lights.red.on() ##on the red led

    sleep(1)

    Lights.off() ##off the led

    Buzzer.off() ##off the buzzer
```