ASSIGNMENT 3

Python code for LED Blinking :

```python
from time import sleep

GP.setwarnings(False)
GP.setmode(GP.BOARD)
GP.setup(8,GP.OUT,initial=GP.LOW)

while True:               #infinite loop
    GP.output(8, GPIO.HIGH)       # Turn on
    print("The LED is ON")
    sleep(2)           # Sleep for 2 second

    GP.output(8, GPIO.LOW)        # Turn off
    print("The LED is OFF")
    sleep(2)           # Sleep for 2 second
```

Python code for Traffic light:

```python
from gpiozero import LED
from time import sleep

red= LED(17)            #pin numbers connected to Led's
aster=(22)
green=(27)

while True:
```

```
red.on()                #RED light

print("Red light is ON")

for i in range(100,0,-1):

    print("Remaining time: ",i)

    sleep(1)

red.off()


aster.on()              # ASTER light

print("Yellow light is ON")

for i in range(5,0,-1):

    print("Remaining time: ",i)

    sleep(1)

aster.off()


green.on                #GREEN light

print("Green light is ON")

for i in range(30,0,-1):

    print("Remaining time: ",i)

    sleep(1)

green.off()
```