Assignment - 3

Write a python code for blinking LED and Traffic lights for Raspberry pi .

LED Blinking:

```
ain.py
    #LED BLINKING
    import RPi.GPIO as GPIO
        from time import sleep
        GPIO.setwarnings(False)
        GPIO.setmode(GPIO.BOARD)
        GPIO.setup(8, GPIO.OUT, initial=GPIO.LOW)
 9
                                           #infinite loop
10 -
        while True:
            GPIO.output(8, GPIO.HIGH)
                                                       # Turn on
            print("The LED is ON")
12
13
            sleep(5)
                                           # Sleep for 5 second
14
15
            GPIO.output(8, GPIO.LOW)
                                                       # Turn off
            print("The LED is OFF")
16
            sleep(5)
                                           # Sleep for 5 second
17
```

TRAFFIC LIGHT:

```
nain.py
     from gpiozero import LED
     from time import sleep
     red= LED(17)
                           #pin numbers connected to Led's
     amber=(22)
    green=(27)
 10 while True:
         red.on()
                                         #RED light
         print("Red light is ON")
 12
         for i in range(60,0,-1):
 13 -
 14
             print("Remaining time: ",i)
 15
             sleep(1)
         red.off()
 16
 17
 18
         amber.on()
                                        # AMBER light
 19
         print("Yellow light is ON")
 20 -
         for i in range(5,0,-1):
             print("Remaining time: ",i)
 21
             sleep(1)
 22
 23
         amber.off()
 24
 25
                                        #GREEN light
         green.on
         print("Green light is ON")
 26
 27 -
         for i in range(40,0,-1):
             print("Remaining time: ",i)
 28
             sleep(1)
 29
 30
         green.off()
```