Assignment -3

Assignment Date	05 October 2022
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Question-1 :

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

Solution :

LED BLINKING CODE

```
import RPi.GPIO as GP 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
```

TRAFFIC LIGHT RASBERRY PYTHON CODE

```
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 is: ",i)

    Sleep(1)

    Red.off()
```

```
Aster.on() # ASTER light

Print("YELLOW LIGHT IS ON")

For I in range(5,0,-1):

Print("Remaining time is: ",i)

Sleep(1)

Aster.off()

Green.on #GREEN light

Print("GREEN LIGHT IS ON")

For I in range(30,0,-1):

Print("Remaining time is: ",i)
 Sleep(1)
Green.off()
```