IBM Project Assignment 3

Student Name	Naveen Vishak V
Student Register Number	722819106054
Team ID	PNT2022TMID19483
Maximum Marks	2 Marks

Question:

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

Python code for blinking LED:

```
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

Python code for Traffic lights:

```
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()
```