IBM

ASSIGNMENT-03

TEAM ID: PNT2022TMID23451

TEAM MEMBERS:

- ❖ Leela Vinothini S (113219041056)
- ❖ Ponsanthini A (113219041083)
- ❖ Shalini R (113219041104)
- ❖ Shamini P (113219041105)

Write a python code for blinking LED ad Traffic lights forRaspberry pi.

Python code:

```python
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 s
```

TRAFFIC LIGHT CONTROLLER:

```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")
```

```python
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()
```