

Assignment -3

Python Programming

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| Assignment Date | 06 October 2022 |
| Student Name | Mr.IYAPPAN V |
| Student Roll Number | GCTC1914L08 |
| Maximum Marks | 2 Marks |

Write Python Code For Blinking LED And Traffic Lights For Raspberry Pi

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:
    GP.output(8, GPIO.HIGH)
    print("The LED is ON")
    sleep(2)

    GP.output(8, GPIO.LOW)
    print("The LED is OFF")
    sleep(2)
```

TRAFFIC LIGHT

```
from gpiozero import LED from
time import sleep
red= LED(17)
aster=(22)
green=(27) while
True:
    red.on()
    print("Red light is ON")
for i in range(100,0,-1):
    print("Remaining time: ",i)
    sleep(1)
    red.off()
```

```
aster.on()
print("Yellow light is ON")
for i in range(5,0,-1):
    print("Remaining time: ",i)
    sleep(1)
aster.off()
```

```
green.on
print("Green light is ON")
for i in range(30,0,-1):
    print("Remaining time: ",i)
    sleep(1)
green.off()
```