

ASSIGNMENT-3

TRAFFIC LIGHT RASBERRY PYTHON CODE

YUKKENDRAN D P

PNT2022TMID04058

```
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()
```

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
```