

ASSIGNMENT -3

TRAFFIC LIGHT RASBERRY PYTHON CODE

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```
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
```