

Assignment -3

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:

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

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

Python code for Traffic lights:

```
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()
```