ASSIGNMENT-III

AIM:

To write a python code for blinking LED and Traffic Lights for Raspberry Pi.

SOFTWARE USED:

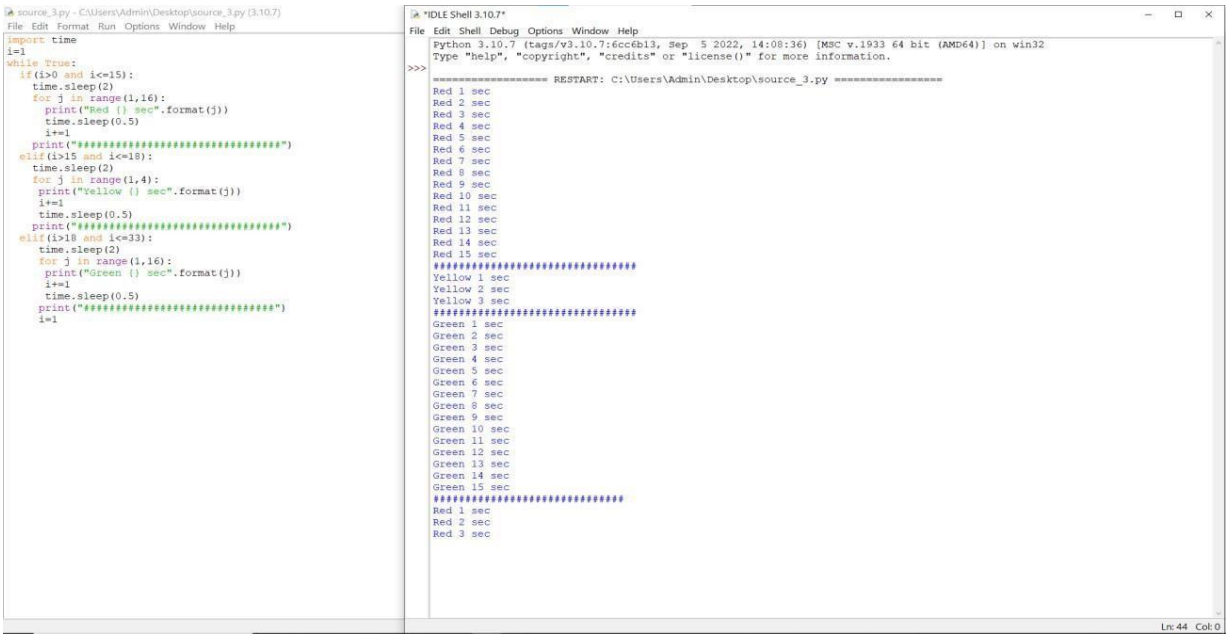
Python IDLE 3.10.7 (64 bit)

PROGRAM:

```
import
time i=1
while True:
    if(i>0 and i<=15):
        time.sleep(2)
        for j in range(1,16):
            print("Red {}
            sec".format(j))
            time.sleep(0.5)
            i+=1
            print("################################
            ##")
    elif(i>15 and i<=18):
        time.sleep(2)
        for j in range(1,4):
            print("Yellow {} sec".format(j))
```

```
            i+=1
            time.sleep(0.5)
            print("##################################")
elif(i>18 and i<=33):
    time.sleep(2)
    for j in range(1,16):
        print("Green {}
        sec".format(j)) i+=1
        time.sleep(0.5)
        print("##################################")
        i=1
```

SIMULATION OUTPUT:



WORKING:

1) **Red Light glows for 15 seconds.**
2) **After timeout, Yellow Light glows after an interval (sleep) of 2 seconds.**
3) **Yellow Light glows for 3 seconds.**
4) **After timeout, the device goes to sleep mode for 2 seconds.**
5) **After sleep mode, Green Light glows for 15 seconds.**
6) **This process is repeated and goes for infinite cycles.**

RESULT:

Thus, I have successfully compiled a python code for blinking LED and Traffic Lights for Raspberry Pi.