Hetesh
211419106104

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:

```python
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
```
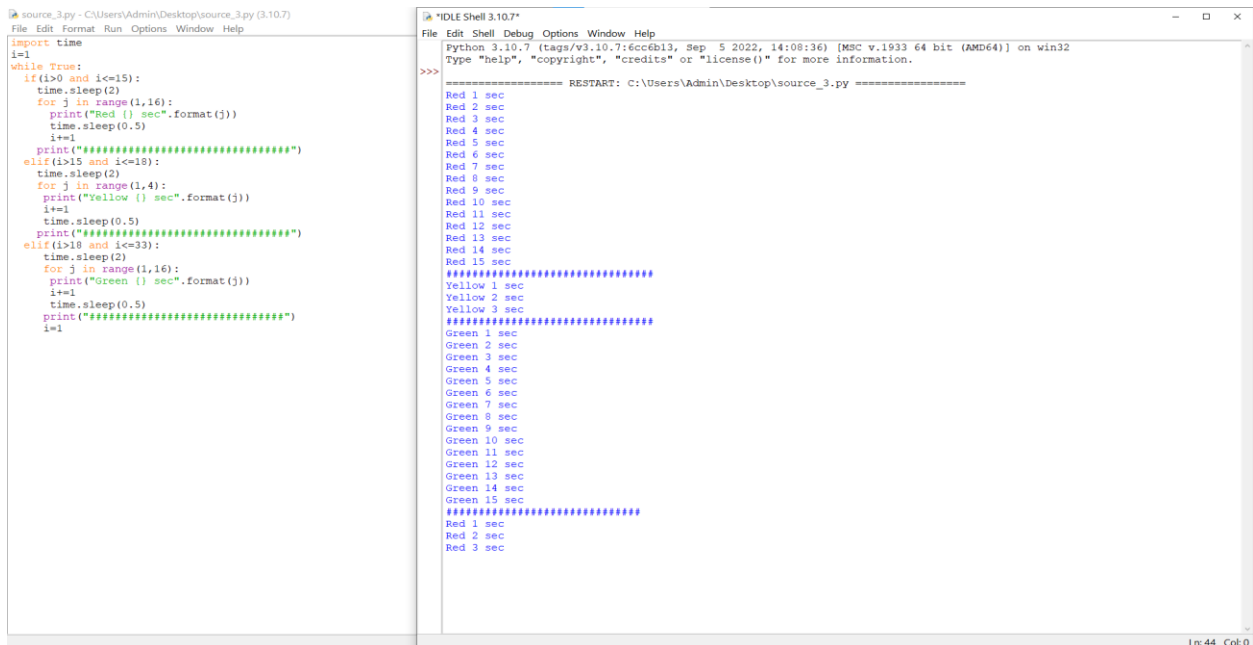
SIMULATION OUTPUT:

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, device goes for 2 seconds sleep mode.

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.