ASSIGNMENT-III

AIM:

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

SOFTWARE USED:

Python IDLE 3.10.4 (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</pre>
```

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.