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:

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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.