Assignment - 3

Aim:

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

Software used:

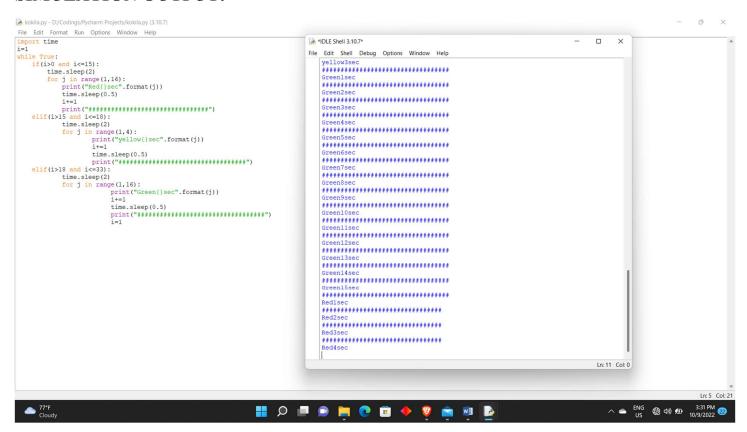
```
Python IDLE 3.10.7 (64 bit)
```

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</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.