

### Assignment – 3

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

**Software used:**

Python IDLE 3.10.7 (64 bit)

**Program:**

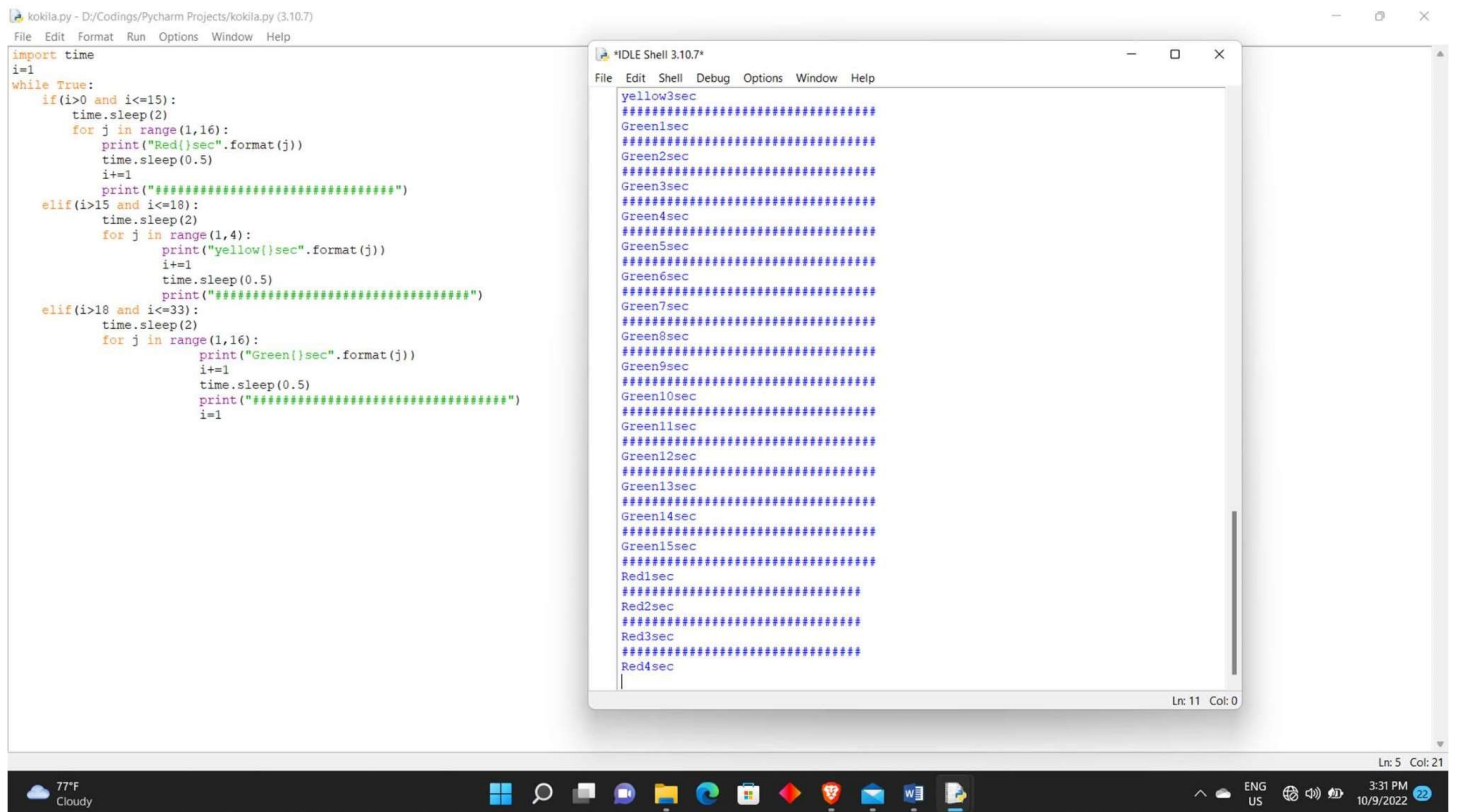
```
import time
i=1 while
True:
    if(i>0 and i<=15):
time.sleep(2)    for j in
range(1,16):
print("Red {} sec".format(j))
time.sleep(0.5)    i+=1
    print("#####")
    elif(i>15 and i<=18):
time.sleep(2)    for j
in range(1,4):
        print("yellow {} sec".format(j))
        i+=1
time.sleep(0.5)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



The screenshot shows a Python IDE with a file named 'kokila.py' and an 'IDLE Shell' window. The code in the IDE is a simulation of traffic lights. The 'IDLE Shell' window displays the output of the code, which includes a sequence of colored lights (yellow, green, red) and their durations (e.g., 'yellow3sec', 'Green1sec', 'Red1sec'). The output is formatted with blue text and green asterisks for separation.

```

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

```

```

yellow3sec
#####
Green1sec
#####
Green2sec
#####
Green3sec
#####
Green4sec
#####
Green5sec
#####
Green6sec
#####
Green7sec
#####
Green8sec
#####
Green9sec
#####
Green10sec
#####
Green11sec
#####
Green12sec
#####
Green13sec
#####
Green14sec
#####
Green15sec
#####
Red1sec
#####
Red2sec
#####
Red3sec
#####
Red4sec
#####

```

## Result:

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