

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:

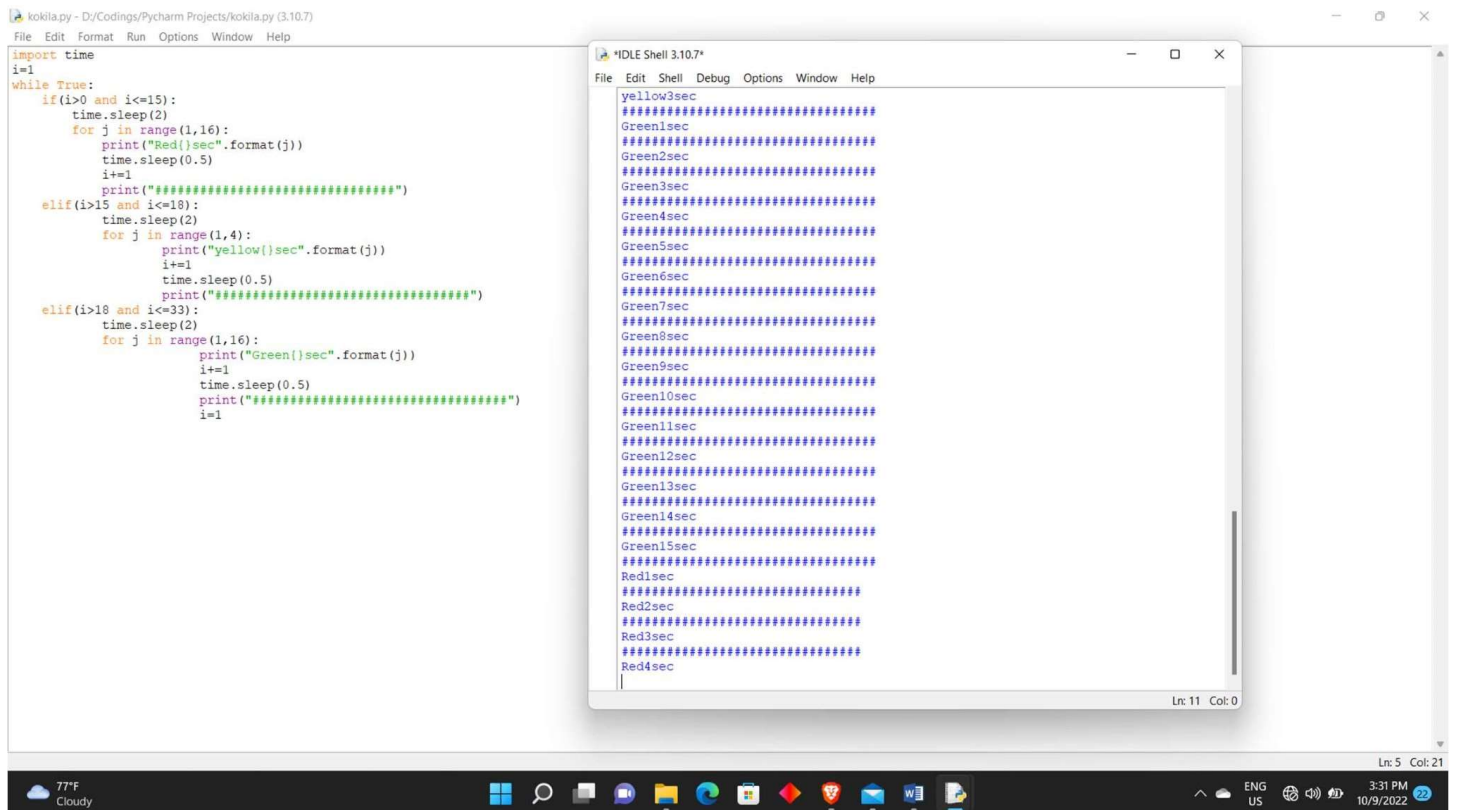
```
import time
i=1 while
True:
    if(i>0 and i<=15):
time.sleep(2)    for j in
range(1,16):
print("Red {} sec".format(j))
time.sleep(0.5)    i+=1
    print("#####")
    elif(i>15 and i<=18):
time.sleep(2)    for j
in range(1,4):
        print("yellow {} sec".format(j))
        i+=1
time.sleep(0.5)
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 traffic light simulation. The shell window displays the output of the code, showing a sequence of green, yellow, and red lights with their respective durations in seconds. The output is as follows:

```

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.