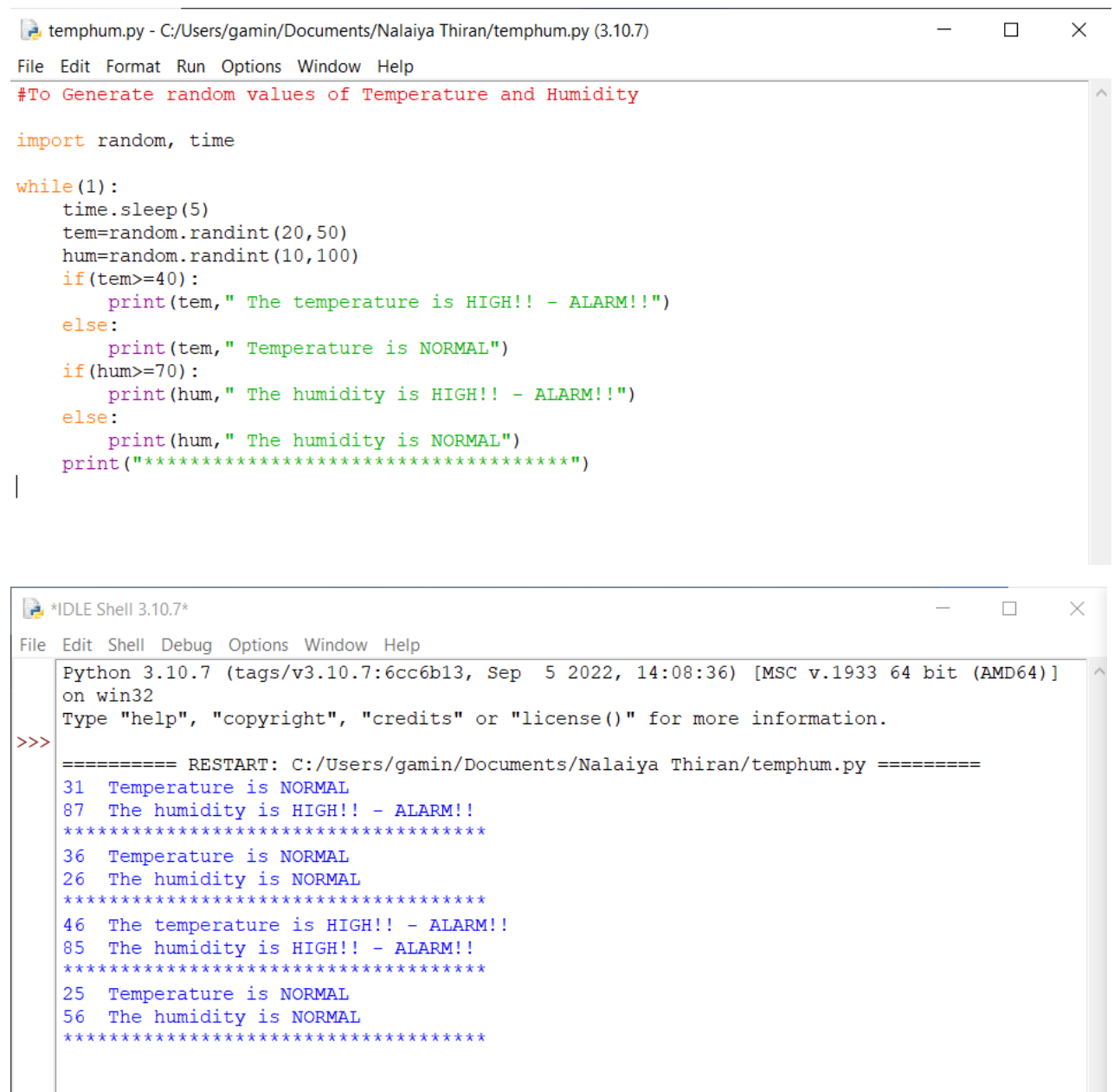


# ASSIGNMENT 2

TEAM ID: PNT2022TMID16062

To display remarks on random values of temperature and humidity

## OUTPUT



The image shows two windows from a Python IDE. The top window is a text editor titled 'temphum.py' containing a Python script. The script imports 'random' and 'time', then enters a 'while(1):' loop. Inside the loop, it sleeps for 5 seconds, generates random temperature (20-50) and humidity (10-100) values. It then checks if temperature is 40 or higher (printing 'HIGH!! - ALARM!!') or if humidity is 70 or higher (printing 'HIGH!! - ALARM!!'). Otherwise, it prints 'NORMAL'. A separator line of asterisks is printed after each iteration. The bottom window is the 'IDLE Shell' showing the execution output, which matches the script's logic, displaying alternating 'NORMAL' and 'ALARM!!' messages separated by asterisks.

```
temphum.py - C:/Users/gamin/Documents/Nalaiya Thiran/temphum.py (3.10.7)
File Edit Format Run Options Window Help
#To Generate random values of Temperature and Humidity

import random, time

while(1):
    time.sleep(5)
    tem=random.randint(20,50)
    hum=random.randint(10,100)
    if(tem>=40):
        print(tem," The temperature is HIGH!! - ALARM!!")
    else:
        print(tem," Temperature is NORMAL")
    if(hum>=70):
        print(hum," The humidity is HIGH!! - ALARM!!")
    else:
        print(hum," The humidity is NORMAL")
    print("*****")

Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)]
on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/gamin/Documents/Nalaiya Thiran/temphum.py =====
31 Temperature is NORMAL
87 The humidity is HIGH!! - ALARM!!
*****
36 Temperature is NORMAL
26 The humidity is NORMAL
*****
46 The temperature is HIGH!! - ALARM!!
85 The humidity is HIGH!! - ALARM!!
*****
25 Temperature is NORMAL
56 The humidity is NORMAL
*****
```

## CODE

#To Generate random values of Temperature and Humidity

```
import random, time
```

```
while(1):
```

```
    time.sleep(5)
```

```
    tem=random.randint(20,50)
```

```
    hum=random.randint(10,100)
```

```
    if(tem>=40):
```

```
        print(tem," The temperature is HIGH!! - ALARM!!")
```

```
    else:
```

```
        print(tem," Temperature is NORMAL")
```

```
    if(hum>=70):
```

```
        print(hum," The humidity is HIGH!! - ALARM!!")
```

```
    else:
```

```
        print(hum," The humidity is NORMAL")
```

```
    print("*****")
```