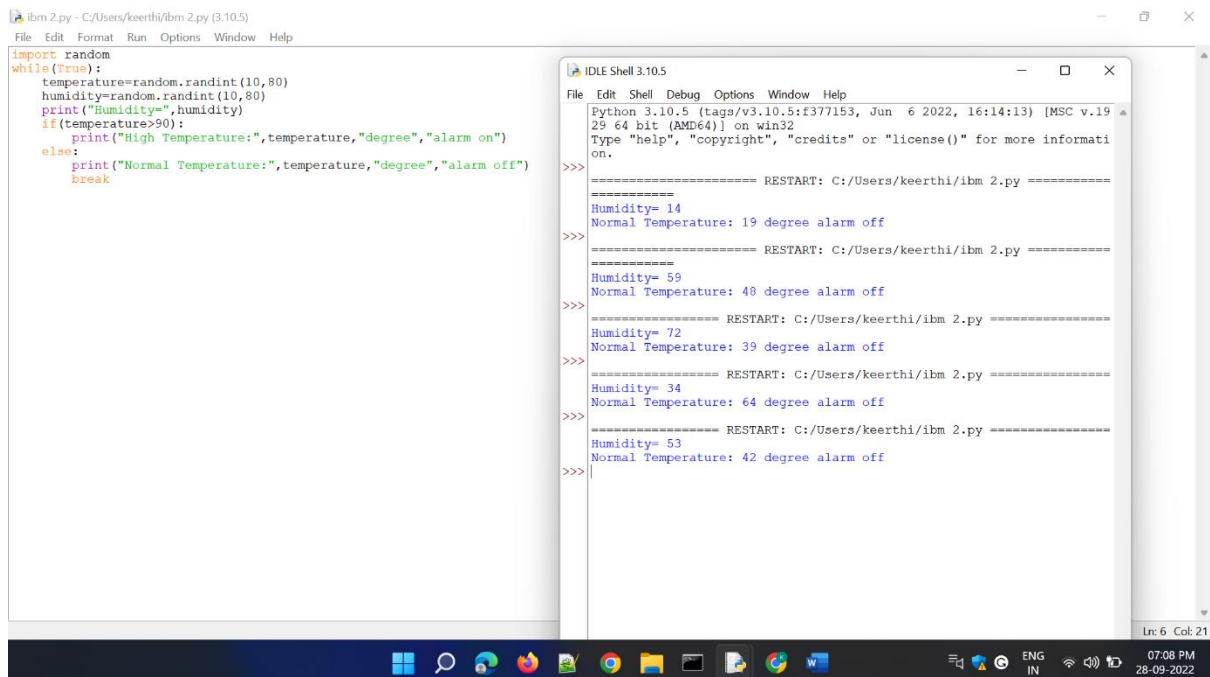


Assignment – 2

Date	28 september 2022
Team ID	PNT2022TMID01040
Name	Gas Leakage monitoring & Alerting system for industries

Build a python code, assume you get temperature and humidity values(generated with the random function to a variable), and write a condition to continuously detect alarm in case of high temperature.

Program and screen shot of execution:



The screenshot shows a Python IDE with a file named 'ibm 2.py' open. The code in the file is as follows:

```
import random
while(True):
    temperature=random.randint(10,80)
    humidity=random.randint(10,80)
    print("Humidity=",humidity)
    if(temperature>90):
        print("High Temperature:",temperature,"degree","alarm on")
    else:
        print("Normal Temperature:",temperature,"degree","alarm off")
        break
```

The IDE's shell window shows the execution output, which includes several restarts of the program. The output for each restart is as follows:

```
===== RESTART: C:/Users/keerthi/ibm 2.py =====
Humidity= 14
Normal Temperature: 19 degree alarm off
>>>
===== RESTART: C:/Users/keerthi/ibm 2.py =====
Humidity= 59
Normal Temperature: 48 degree alarm off
>>>
===== RESTART: C:/Users/keerthi/ibm 2.py =====
Humidity= 72
Normal Temperature: 39 degree alarm off
>>>
===== RESTART: C:/Users/keerthi/ibm 2.py =====
Humidity= 34
Normal Temperature: 64 degree alarm off
>>>
===== RESTART: C:/Users/keerthi/ibm 2.py =====
Humidity= 53
Normal Temperature: 42 degree alarm off
>>>
```

The taskbar at the bottom of the screen shows the system clock as 07:08 PM on 28-09-2022.

Program:

```
import random

while(True):

    temperature=random.randint(10,80)

    humidity=random.randint(10,80)

    print("Humidity=",humidity)

    if(temperature>35):
```

```
    print("High Temperature:",temperature,"degree","alarm on")
else:
    print("Normal Temperature:",temperature,"degree","alarm off")
break
```