

Assignment -2

Python Programming

Assignment Date	20 November 2022
Student Name	Akilan.G
Student Roll Number	814419106302
Maximum Marks	2 Marks

Question-1:

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

Code:

```
import time #importing the time lib

import random #importing the random lib

i=0 #initiating with 0

while (i<5): #iterating only for 5 times

    i=i+1

    time.sleep(1) #1sec

    temp=random.randint(0,80)

    humid=random.randint(1,100)

    if temp<=15:

        print(temp,"the temperature is low")

    elif temp<=25:

        print(temp,"the temperature is ok & normal")

    else:

        print(temp,"the temperature is absolutely high")

    if humid<=50:

        print(humid,"the humidity is low")

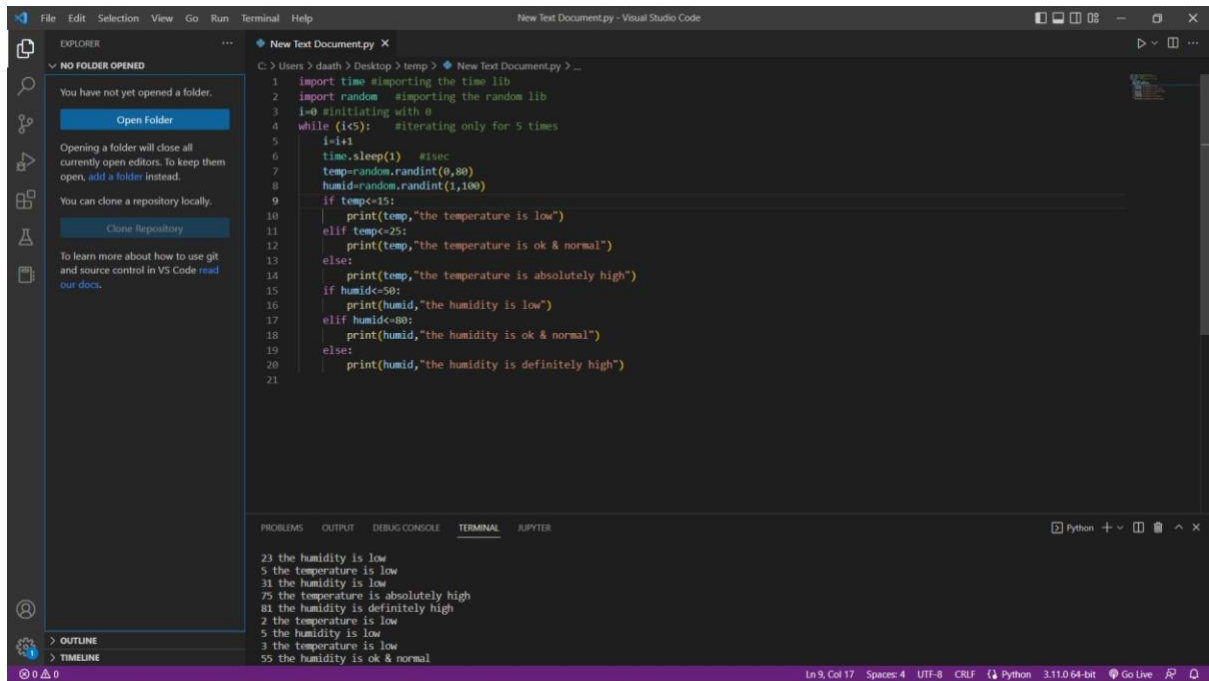
    elif humid<=80:

        print(humid,"the humidity is ok & normal")

    else:

        print(humid,"the humidity is definitely high")
```

Output:



The screenshot shows the Visual Studio Code interface with a Python script in the editor and its output in the terminal. The Explorer sidebar on the left indicates 'NO FOLDER OPENED' and provides options like 'Open Folder' and 'Clone Repository'. The editor displays a Python script that generates random temperature and humidity values and prints them. The terminal at the bottom shows the output of the script, which includes the following lines:

```
23 the humidity is low
5 the temperature is low
31 the humidity is low
75 the temperature is absolutely high
81 the humidity is definitely high
2 the temperature is low
5 the humidity is low
3 the temperature is low
55 the humidity is ok & normal
```

The status bar at the bottom indicates the current file is 'Ln 9, Col 17', using 'Spaces: 4', 'UTF-8' encoding, 'CRLF' line endings, and is a 'Python 3.11.0 64-bit' file. It also includes a 'Go Live' button and a search icon.