

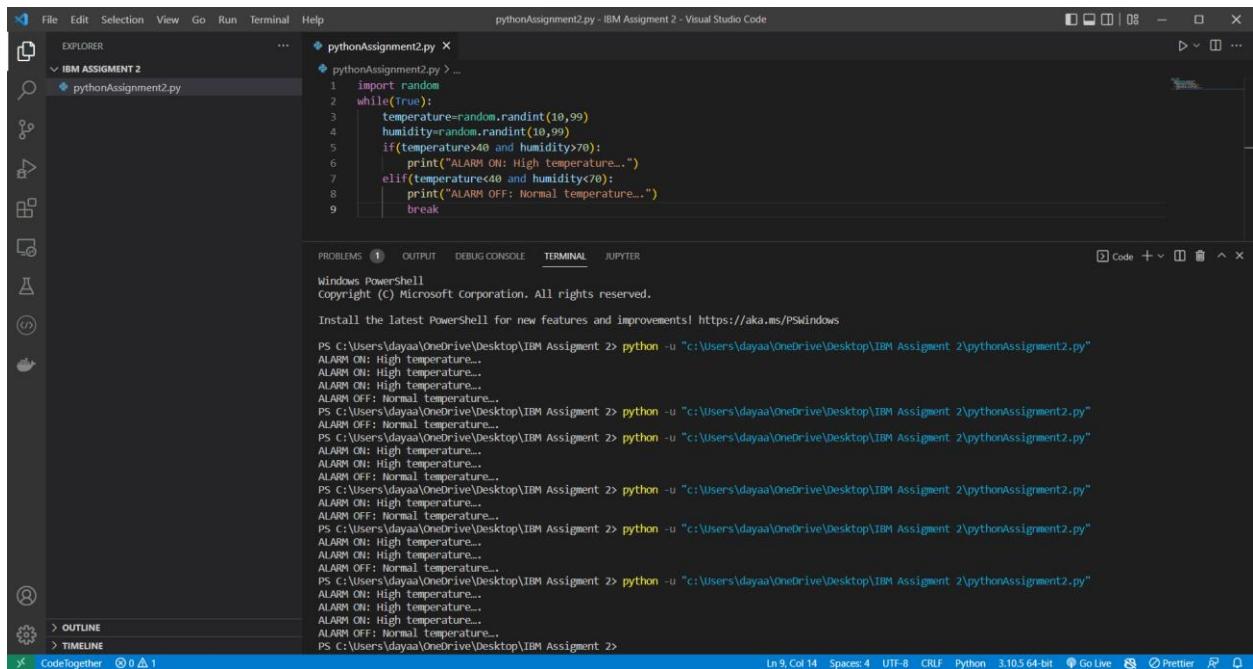
# IBM NALAIYA THIRAN

## ASSIGNMENT - 2

Python code to check temperature, humidity, and alarm on High temperature:

Code:

```
import random
while(True):
    temperature=random.randint(10,99)
    humidity=random.randint(10,99)
    if(temperature>40 and humidity>70):
        print("ALARM ON: High temperature...")
    elif(temperature<40 and humidity<70):
        print("ALARM OFF: Normal temperature...")
        break
```



The screenshot displays the Visual Studio Code interface. The Explorer pane on the left shows a project named 'IBM ASSIGNMENT 2' with a file 'pythonAssignment2.py'. The main editor window shows the following Python code:

```
1 import random
2 while(True):
3     temperature=random.randint(10,99)
4     humidity=random.randint(10,99)
5     if(temperature>40 and humidity>70):
6         print("ALARM ON: High temperature...")
7     elif(temperature<40 and humidity<70):
8         print("ALARM OFF: Normal temperature...")
9         break
```

The TERMINAL pane at the bottom shows the execution of the script using PowerShell. The output alternates between 'ALARM ON: High temperature...' and 'ALARM OFF: Normal temperature...' based on the random values generated by the script.

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\dayaa\OneDrive\Desktop\IBM Assignment 2> python -u "c:\Users\dayaa\OneDrive\Desktop\IBM Assignment 2\pythonAssignment2.py"
ALARM ON: High temperature...
ALARM ON: High temperature...
ALARM ON: High temperature...
ALARM OFF: Normal temperature...
PS C:\Users\dayaa\OneDrive\Desktop\IBM Assignment 2> python -u "c:\Users\dayaa\OneDrive\Desktop\IBM Assignment 2\pythonAssignment2.py"
ALARM OFF: Normal temperature...
PS C:\Users\dayaa\OneDrive\Desktop\IBM Assignment 2> python -u "c:\Users\dayaa\OneDrive\Desktop\IBM Assignment 2\pythonAssignment2.py"
ALARM ON: High temperature...
ALARM ON: High temperature...
ALARM ON: High temperature...
ALARM OFF: Normal temperature...
PS C:\Users\dayaa\OneDrive\Desktop\IBM Assignment 2> python -u "c:\Users\dayaa\OneDrive\Desktop\IBM Assignment 2\pythonAssignment2.py"
ALARM ON: High temperature...
ALARM ON: High temperature...
ALARM ON: High temperature...
ALARM OFF: Normal temperature...
PS C:\Users\dayaa\OneDrive\Desktop\IBM Assignment 2> python -u "c:\Users\dayaa\OneDrive\Desktop\IBM Assignment 2\pythonAssignment2.py"
ALARM ON: High temperature...
ALARM ON: High temperature...
ALARM ON: High temperature...
ALARM OFF: Normal temperature...
PS C:\Users\dayaa\OneDrive\Desktop\IBM Assignment 2>
```