

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 image shows a Visual Studio Code editor window with a Python file named `pythonAssignment2.py`. The script simulates a temperature and humidity sensor with an alarm. The terminal shows the script being executed multiple times, outputting 'ALARM ON: High temperature...' or 'ALARM OFF: Normal temperature...' based on random values.

```
pythonAssignment2.py X
pythonAssignment2.py > ...
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
```

Windows PowerShell
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```
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 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 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 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 OFF: Normal temperature...
PS C:\Users\dayaa\OneDrive\Desktop\IBM Assignment 2>
```