Assignment -2

Python Programming

Assignment Date	24 September 2022
Student Name	Hari Prasath T
Student Roll Number	722819104041
Maximum Marks	2 Marks

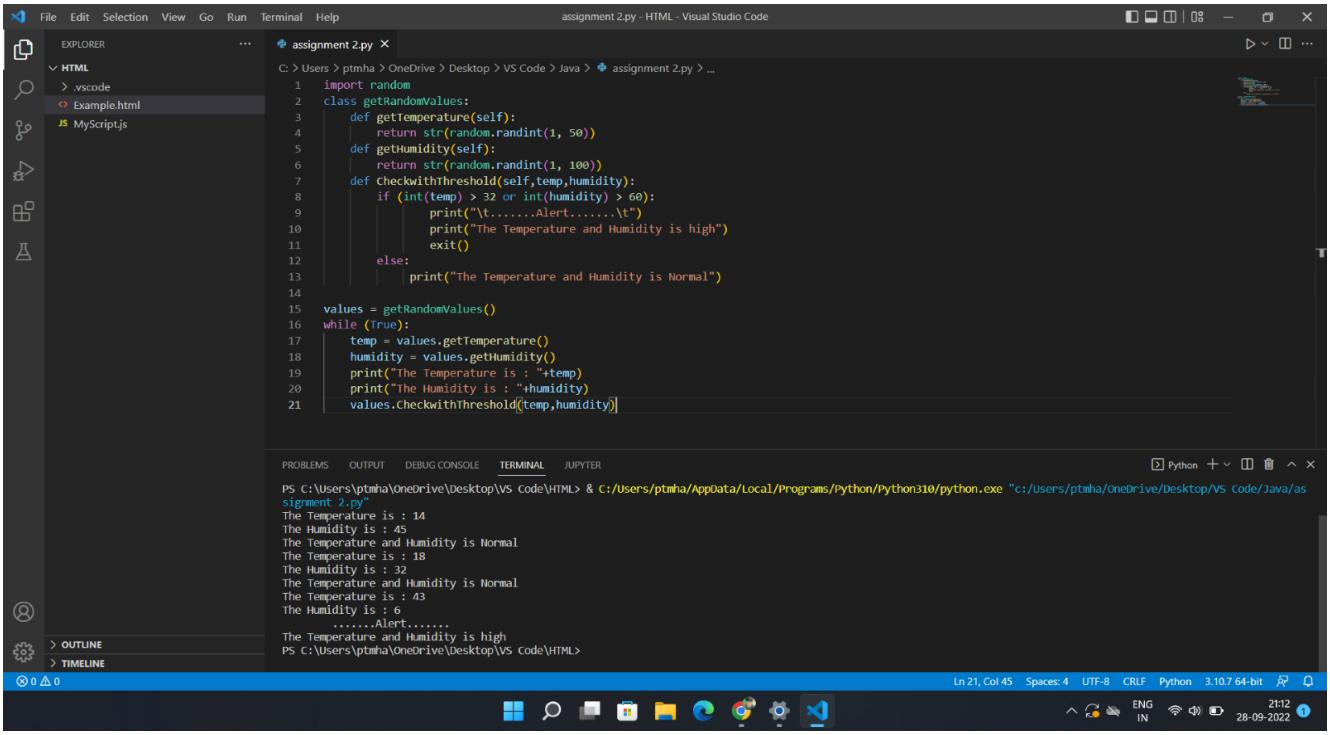
Question-1:

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

Solution:

```
import random
class getRandomValues:
    def getTemperature(self):
        return str(random.randint(1, 50))
    def getHumidity(self):
        return str(random.randint(1, 100))
    def CheckwithThreshold(self,temp,humidity):
        if (int(temp) > 32 or int(humidity) > 60):
                print("\t.......Alert.......\t")
                print("The Temperature and Humidity is high")
                exit()
        else:
             print("The Temperature and Humidity is Normal")

values = getRandomValues()
while (True):
    temp = values.getTemperature()
    humidity = values.getHumidity()
    print("The Temperature is : "+temp)
    print("The Humidity is : "+humidity)
    values.CheckwithThreshold(temp,humidity)
```


File Edit Selection View Go Run Terminal Help
assignment 2.py - HTML - Visual Studio Code
EXPLORER
HTML
.vscode
Example.html
MyScript.js
assignment 2.py
C: > Users > ptmha > OneDrive > Desktop > VS Code > Java > assignment 2.py > ...
import random
class getRandomValues:
def getTemperature(self):
return str(random.randint(1, 50))
def getHumidity(self):
return str(random.randint(1, 100))
def CheckwithThreshold(self,temp,humidity):
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print("\t.......Alert.......\t")
print("The Temperature and Humidity is high")
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else:
print("The Temperature and Humidity is Normal")
values = getRandomValues()
while (True):
temp = values.getTemperature()
humidity = values.getHumidity()
print("The Temperature is : "+temp)
print("The Humidity is : "+humidity)
values.CheckwithThreshold(temp,humidity)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
Python
PS C:\Users\ptmha\OneDrive\Desktop\VS Code\HTML> & C:/Users/ptmha/AppData/Local/Programs/Python/Python310/python.exe "c:/Users/ptmha/OneDrive/Desktop/VS Code/Java/assignment 2.py"
The Temperature is : 14
The Humidity is : 45
The Temperature and Humidity is Normal
The Temperature is : 18
The Humidity is : 32
The Temperature and Humidity is Normal
The Temperature is : 43
The Humidity is : 6
.......Alert.......
The Temperature and Humidity is high
PS C:\Users\ptmha\OneDrive\Desktop\VS Code\HTML>
OUTLINE
TIMELINE
Ln 21, Col 45 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit
ENG IN
21:12 28-09-2022