

Assignment - 2

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Question : *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 the alarm incase of high temperature.*

Solution:

Program Code:

```
Import random
def temperature():
    value=random.randint(20,100)
    return value
t=temperature()
def pressure():
    value=random.randint(10,90)
    return value
p=pressure()
def humidity():
    range=random.randint(40,100)
    return range
h=humidity()
print('Temp={0:0.1f}*C
Humidity={1:0.1f}%'.format(t,h))
```

#TEMPERATURElevels

```
if t>30:
    print(t,"Deg C -- High temperature is detected")
elif t==30:
    print(t,"Deg C -- Temperature reached maximum
threshold  of 30 degrees celsius")
else:
    print(t,"Deg C -- Temperature is good")
```

#HUMIDITYlevels

```
if h>65 :
    print(h,"% -- High humidity detected")
elif h == 65:
    print(h,"% -- Humidity reached maximum threshold
of 65 percent")
else:
    print(h,"% -- Humidity is good")
```

File Edit Selection View Go Run Terminal Help

ASSIGNMENT-2.py - Visual Studio Code

EXPLORER

OPEN EDITORS

ASSIGNMENT-2.py C:\Users\giree\...

NO FOLDER OPENED

OUTLINE

TIMELINE

ASSIGNMENT-2.py X

C: > Users > giree > OneDrive > Desktop > IBM > ASSIGNMENT-2.py > humidity

```
1 import random
2 def temperature():
3     value=random.randint(20,100)
4     return value
5 t=temperature()
6 def pressure():
7     value=random.randint(10,90)
8     return value
9 p=pressure()
10 def humidity():
11     range=random.randint(40,100)
12     return range
13 h=humidity()
14 print('Temp={0:0.1f}*C Humidity={1:0.1f}%'.format(t,h))
15
16 #TEMPERATURElevels
17 if t>30:
18     print(t,"Deg C -- High temperature is detetcted")
19 elif t==30:
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Python Debug Console

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

PS C:\Users\giree\OneDrive\Desktop\IBM> & 'C:\Users\giree\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\giree\.vscode\extensions\ms-python.python-2022.14.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '62373' '--' 'c:\Users\giree\OneDrive\Desktop\IBM\ASSIGNMENT-2.py'
Temp=41.0*C Humidity=82.0%
41 Deg C -- High temperature is detetcted
82 % -- High humidity detetcted
PS C:\Users\giree\OneDrive\Desktop\IBM>

Ln 12, Col 17 Spaces: 4 UTF-8 CRLF Python 3.10.7 64-bit (microsoft store)