

Assignment -2

python Programming

Assignment Date	27 September 2022
Student Name	G.Harini
Student Roll Number	821219104008
Maximum Marks	2 Marks

Question-1:

Built a python code ,Assume and 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:

```
a = int (input("Enter Temperature :"))
```

```
b = int (input("Enter Humidity :"))
```

```
if a <64 and b < 30:
```

```
    print("Low")
```

```
else:
```

```
    print("Normal")
```

```
while a >78 and b > 50:
```

```
    print("high Temperature")
```

The screenshot shows a Python IDE with two windows. The left window, titled 'Assignment-2.py', contains the following code:

```
File Edit Format Run Options Window Help
a = int (input("Enter Temperature :"))
b = int (input("Enter Humidity :"))

if a <64 and b < 30:
    print("Low")
else:
    print("Normal")
while a >78 and b > 50:
    print("high Temperature")
```

The right window, titled 'IDLE Shell 3.10.7', shows the output of the code:

```
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> ===== RESTART: C:/Users/ELCOT/Desktop/python/Assignment-2.py =====
Enter Temperature :40
Enter Humidity :15
Low
>>> |
```

The taskbar at the bottom shows the Windows search bar and various application icons. The system clock indicates the time is 21:20 on 26-09-2022.

```
Assignment-2.py - C:/Users/ELCOT/Desktop/python/Assignment-2.py (3.10.7)
File Edit Format Run Options Window Help
a = int(input("Enter Temperature :"))
b = int(input("Enter Humidity :"))

if a < 64 and b < 30:
    print("Low")
else:
    print("Normal")
while a > 78 and b > 50:
    print("High Temperature")

Ln: 10 Col: 0

IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> ===== RESTART: C:/Users/ELCOT/Desktop/python/Assignment-2.py =====
Enter Temperature :40
Enter Humidity :15
Low
>>> ===== RESTART: C:/Users/ELCOT/Desktop/python/Assignment-2.py =====
Enter Temperature :78
Enter Humidity :50
Normal
>>> |

Ln: 13 Co
```

```
Assignment-2.py - C:/Users/ELCOT/Desktop/python/Assignment-2.py (3.10.7)
File Edit Format Run Options Window Help
a = int(input("Enter Temperature :"))
b = int(input("Enter Humidity :"))

if a < 64 and b < 30:
    print("Low")
else:
    print("Normal")
while a > 78 and b > 50:
    print("High Temperature")

Ln: 10 Col: 0

IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> ===== RESTART: C:/Users/ELCOT/Desktop/python/Assignment-2.py =====
Enter Temperature :40
Enter Humidity :15
Low
>>> ===== RESTART: C:/Users/ELCOT/Desktop/python/Assignment-2.py =====
Enter Temperature :78
Enter Humidity :50
Normal
>>> ===== RESTART: C:/Users/ELCOT/Desktop/python/Assignment-2.py =====
Enter Temperature :80
Enter Humidity :64

Ln: 16 Col:
```

The image shows a screenshot of a Python IDE with two windows. The left window, titled "Assignment-2.py", contains the following Python code:

```
File Edit Format Run Options Window Help
a = int (input("Enter Temperature :"))
b = int (input("Enter Humidity :"))

if a <64 and b < 30:
    print("Low")
else:
    print("Normal")
while a >78 and b > 50:
    print("high Temperature")
```

The right window, titled "IDLE Shell 3.10.7*", displays the output of the script, which is the text "high Temperature" repeated 30 times on separate lines. The status bar at the bottom of the shell window shows "Ln: 30 Co". The Windows taskbar at the bottom includes a search bar and various application icons.