

Assignment -2

Python Programming

Assignment Date	26 September 2022
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Maximum Marks	2 Marks

Question-1:

Build a python code, Assume u get temperature and humidity values (generated with random functions to a variable) and write a conditions to continuously detect alarm in case of high temperature.

Solution:

```
x=int(input("Enter the teperature"))
```

```
y=int(input("Enter the humidity"))
```

```
if x>40:
```

```
    if y>70:
```

```
        print("alarm sounds")
```

```
elif x==40:
```

```
    print("maximum temperature")
```

```
else:
```

```
    print("alarm not sounds")
```

output:

```
===== RESTART: C:/Users/sjana/humidity.py
=====
```

```
Enter the teperature45
```

```
Enter the humidity80
```

```
alarm sounds
```

===== RESTART: C:/Users/sjana/humidity.py
=====

Enter the teperature40

Enter the humidity90

maximum temperature

===== RESTART: C:/Users/sjana/humidity.py
=====

Enter the teperature30

Enter the humidity50

alarm not sounds

The screenshot displays a Python IDE with two windows. The left window, titled 'humidity.py - C:/Users/sjana/humidity.py (3.10.7)', contains the following code:

```
x=int(input("Enter the teperature"))
y=int(input("Enter the humidity"))
if x>40:
    if y>70:
        print("alarm sounds")
    elif x==40:
        print("maximum temperature")
    else:
        print("alarm not sounds")
```

The right window, titled 'IDLE Shell 3.10.7', shows the execution output. It starts with the Python version and system information, followed by a 'RESTART' message. The user inputs are shown as they are entered:

```
>>>
===== RESTART: C:/Users/sjana/humidity.py =====
Enter the teperature45
Enter the humidity80
alarm sounds
>>>
===== RESTART: C:/Users/sjana/humidity.py =====
Enter the teperature40
Enter the humidity90
maximum temperature
>>>
===== RESTART: C:/Users/sjana/humidity.py =====
Enter the teperature30
Enter the humidity50
alarm not sounds
>>>
```