

Assignment -2

Assignment Date	20 September 2022
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Student Roll Number	820419106052
Maximum Marks	2 Marks

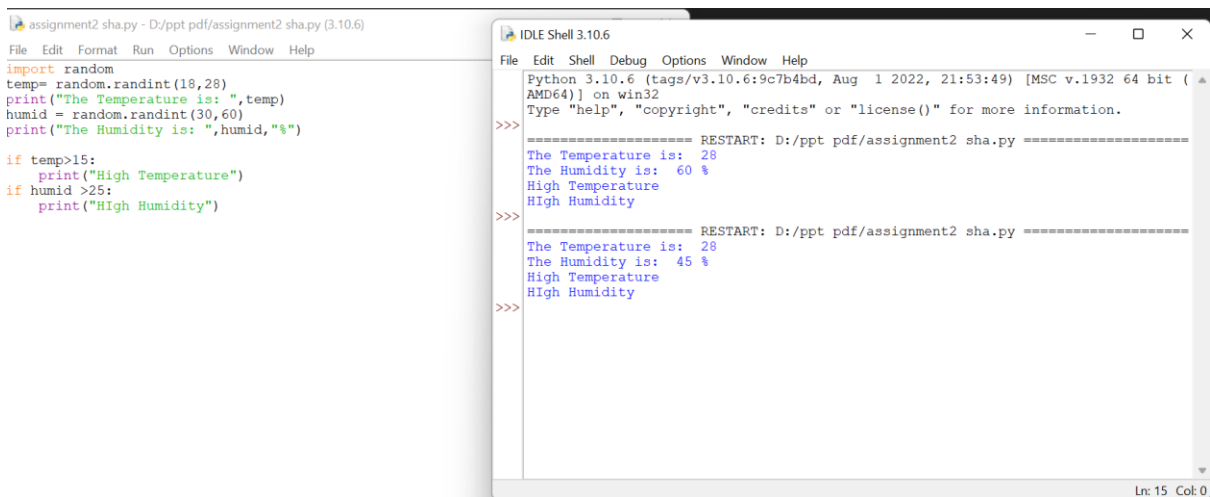
Question-1:

Build a python code, Assume you get temperature and humidity value (generated with random function to a variable) and write a condition to continuously detect alarm in case of High Temperature.

Solution:

```
import random
temp= random.randint(18,28)
print("The Temperature is: ",temp)
humid = random.randint(30,60)
print("The Humidity is: ",humid,"%")

if temp>15:
    print("High Temperature")
if humid >25:
    print("High Humidity")
```



The screenshot displays a Python IDE with two windows. The left window, titled 'assignment2 sha.py - D:/ppt pdf/assignment2 sha.py (3.10.6)', contains the following code:

```
import random
temp= random.randint(18,28)
print("The Temperature is: ",temp)
humid = random.randint(30,60)
print("The Humidity is: ",humid,"%")

if temp>15:
    print("High Temperature")
if humid >25:
    print("High Humidity")
```

The right window, titled 'IDLE Shell 3.10.6', shows the output of the code after two restarts. The first run shows a temperature of 28 and humidity of 60, both triggering 'High Temperature' and 'High Humidity' alerts. The second run shows a temperature of 28 and humidity of 45, also triggering both alerts.

```
Python 3.10.6 (tags/v3.10.6:9c7b4bd, Aug 1 2022, 21:53:49) [MSC v.1932 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: D:/ppt pdf/assignment2 sha.py =====
The Temperature is: 28
The Humidity is: 60 %
High Temperature
High Humidity
>>>
===== RESTART: D:/ppt pdf/assignment2 sha.py =====
The Temperature is: 28
The Humidity is: 45 %
High Temperature
High Humidity
>>>
```