

Assignment -2

Assignment Date	20 September 2022
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Student Roll Number	820419106074
Maximum Marks	2 Marks

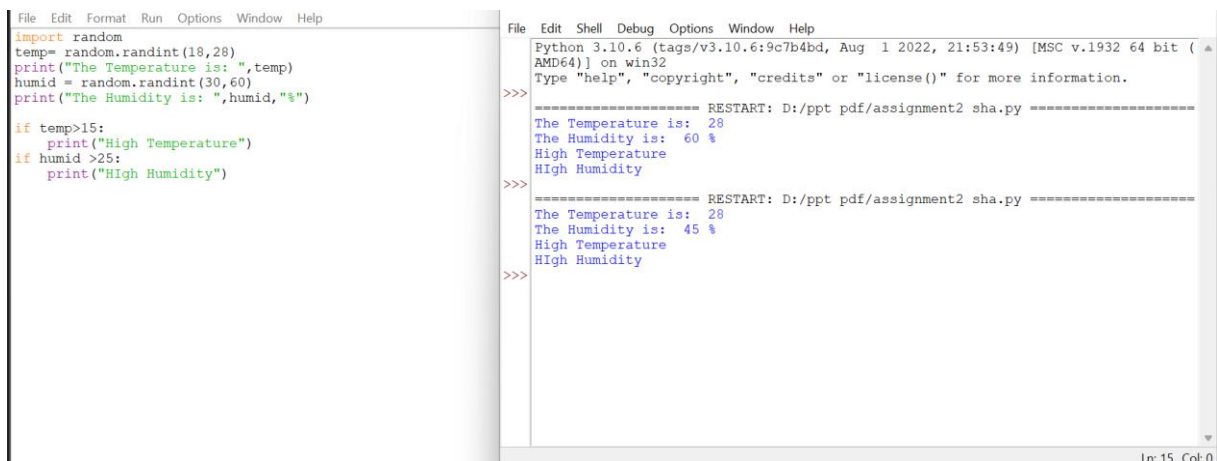
Question-1:

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 shows the source code for a script named 'sha.py'. The code imports the 'random' module, generates random values for temperature (18-28) and humidity (30-60), and prints them. It also includes conditional checks for high temperature (>15) and high humidity (>25). The right window shows the output of the script, which has been executed twice. Each execution prints the generated temperature and humidity values, followed by the corresponding alarm message ('High Temperature' or 'High Humidity').

```
File Edit Format Run Options Window Help
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")
```

```
File Edit Shell Debug Options Window Help
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
>>>
```

Ln: 15 Col: 0