

Assignment -2

Assignment Date	24 September 2022
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Student Roll Number	111519106127
Team Id	PNT2022TMID15034
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:

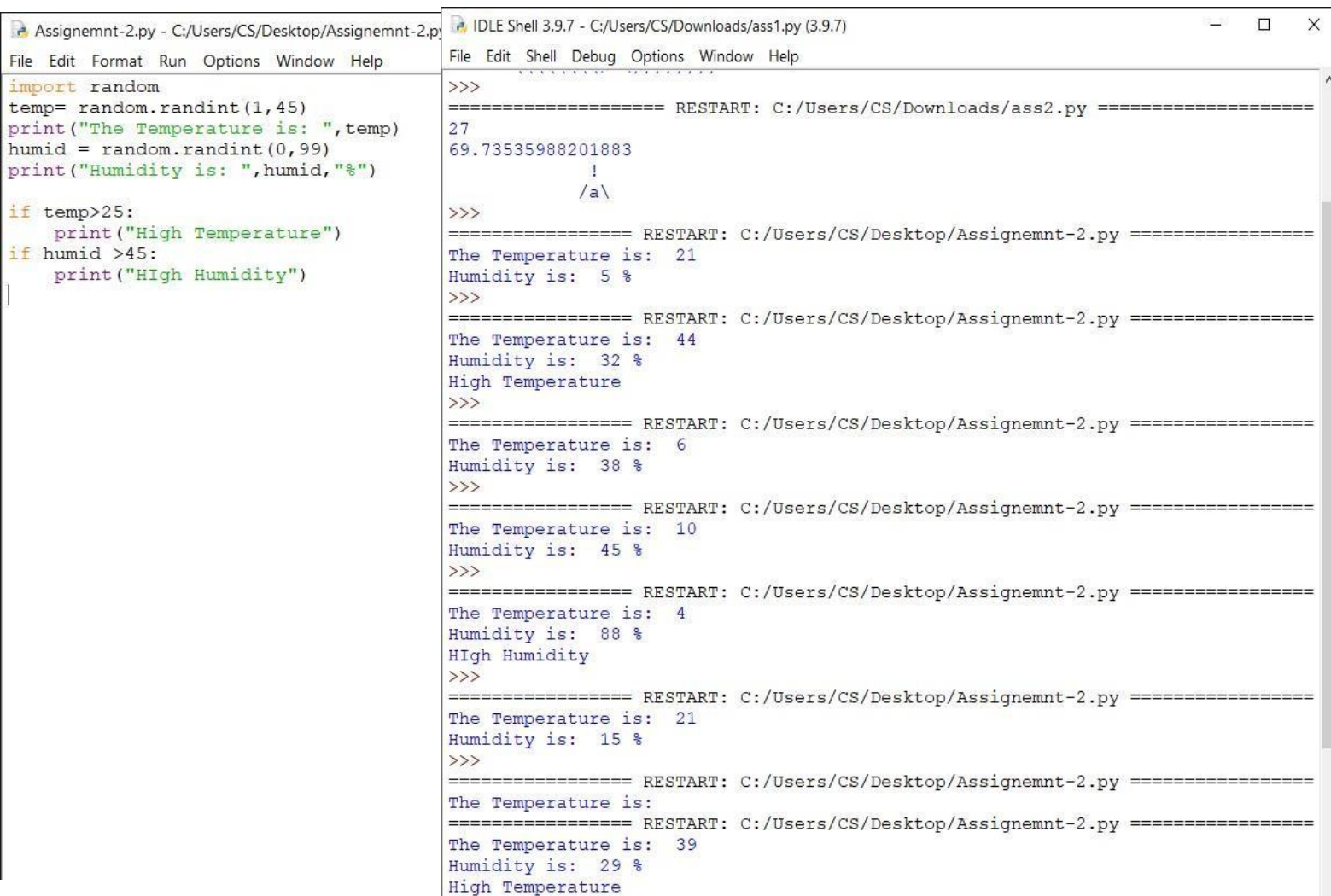
```
import random

temp= random.randint(1,45)
print("The Temperature is:",temp)
humid = random.randint(0,99)
print("Humidity is: ",humid,"%")

if temp>25:
    print("High Temperature")

if humid >45:
    print("High Humidity")
```

OUTPUT:



The image shows two side-by-side windows from the IDLE 3.9.7 Python IDE. The left window, titled 'Assignemnt-2.py', contains Python code that generates random temperature and humidity values and prints them, with conditional checks for high values. The right window, titled 'IDLE Shell 3.9.7 - C:/Users/CS/Downloads/ass1.py (3.9.7)', shows the execution output of the code in the left window. The output includes several 'RESTART' messages and displays the generated values, such as 'The Temperature is: 21' and 'Humidity is: 5 %', along with conditional messages like 'High Temperature' and 'Hlgh Humidity'.

```
import random
temp= random.randint(1,45)
print("The Temperature is: ",temp)
humid = random.randint(0,99)
print("Humidity is: ",humid,"%")

if temp>25:
    print("High Temperature")
if humid >45:
    print("Hlgh Humidity")
```

```
>>>
===== RESTART: C:/Users/CS/Downloads/ass2.py =====
27
69.73535988201883
!
/a\
>>>
===== RESTART: C:/Users/CS/Desktop/Assignemnt-2.py =====
The Temperature is: 21
Humidity is: 5 %
>>>
===== RESTART: C:/Users/CS/Desktop/Assignemnt-2.py =====
The Temperature is: 44
Humidity is: 32 %
High Temperature
>>>
===== RESTART: C:/Users/CS/Desktop/Assignemnt-2.py =====
The Temperature is: 6
Humidity is: 38 %
>>>
===== RESTART: C:/Users/CS/Desktop/Assignemnt-2.py =====
The Temperature is: 10
Humidity is: 45 %
>>>
===== RESTART: C:/Users/CS/Desktop/Assignemnt-2.py =====
The Temperature is: 4
Humidity is: 88 %
Hlgh Humidity
>>>
===== RESTART: C:/Users/CS/Desktop/Assignemnt-2.py =====
The Temperature is: 21
Humidity is: 15 %
>>>
===== RESTART: C:/Users/CS/Desktop/Assignemnt-2.py =====
The Temperature is:
===== RESTART: C:/Users/CS/Desktop/Assignemnt-2.py =====
The Temperature is: 39
Humidity is: 29 %
High Temperature
```