

ASSIGNMENT – 2

PYTHON PROGRAMMING

Assignment Date	22 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 function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Code:

```
import random
import time
def Temp_Humidity_Monitor():
    humidity=random.randint(0,100)
    temp=random.random()*100
    temp_format="{:.2f}".format(temp)
    if(temp>45 and humidity>55 ):
        print("Humidity is ",humidity,end="% ")
        print("\nTemperature is ",temp_format,end=" deg celsius")
        print("\nTemperature is high...Humans can't withstand this")
    elif((humidity>30 and humidity<55) and (temp<45 and temp>18)):
        print("\nEverything looks Fine")
```

while True:

```
    print("*****Calculating Temperature and Humidity*****")
```

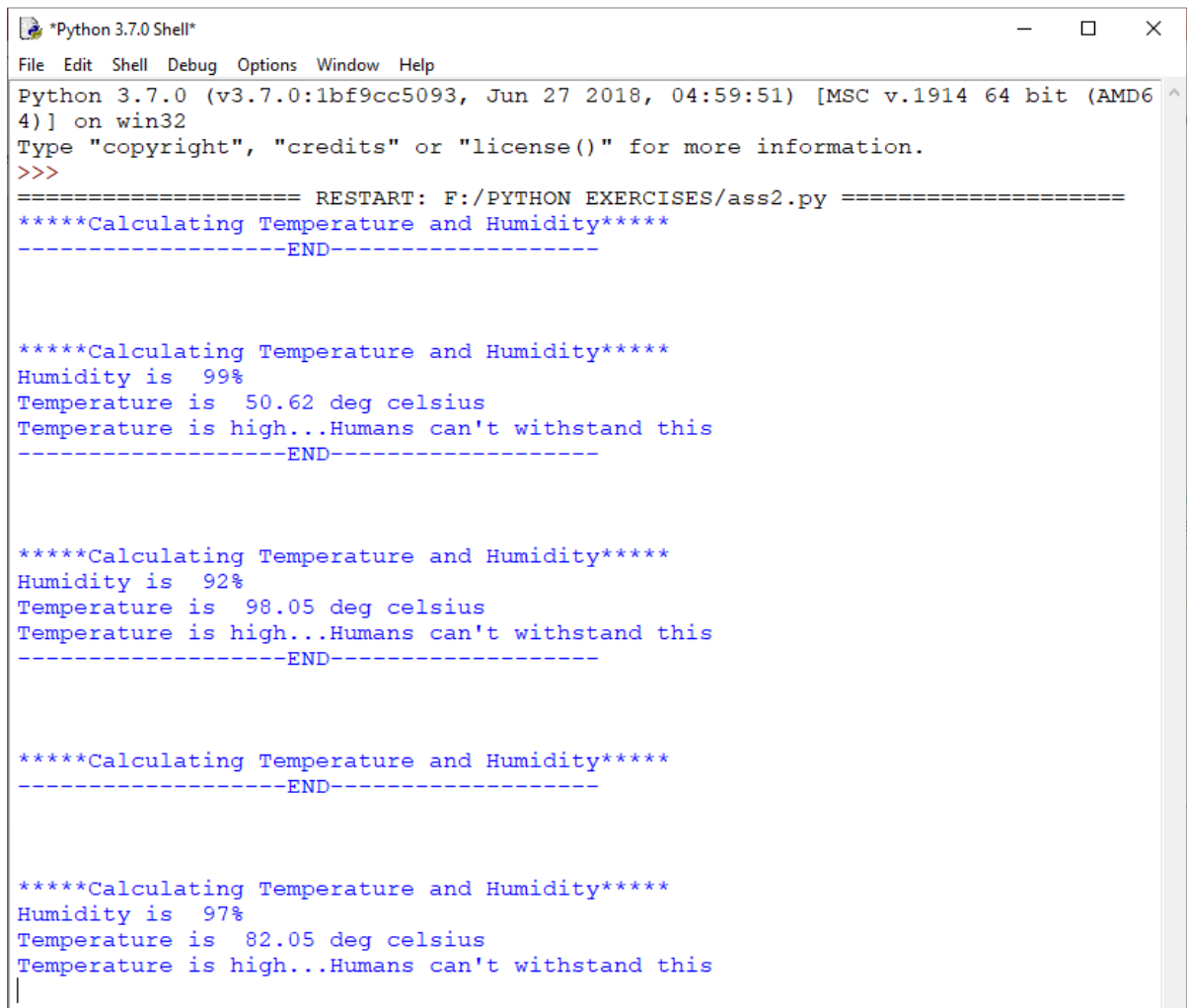
```
    Temp_Humidity_Monitor()
```

```
    time.sleep(3)
```

```
    print("-----END-----")
```

```
    print("\n\n")
```

Screenshot:



```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: F:/PYTHON EXERCISES/ass2.py =====
*****Calculating Temperature and Humidity*****
-----END-----

*****Calculating Temperature and Humidity*****
Humidity is 99%
Temperature is 50.62 deg celsius
Temperature is high...Humans can't withstand this
-----END-----

*****Calculating Temperature and Humidity*****
Humidity is 92%
Temperature is 98.05 deg celsius
Temperature is high...Humans can't withstand this
-----END-----

*****Calculating Temperature and Humidity*****
-----END-----

*****Calculating Temperature and Humidity*****
Humidity is 97%
Temperature is 82.05 deg celsius
Temperature is high...Humans can't withstand this
|
```