Assignment -2

Python Programming

Assignment Date	20 September 2022
Student Name	Mr.R.Ajithkumar
Student Roll Number	621319106003
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.

```
import random
import time
while(True):
    temp = round(random.uniform(10,50),1)
    print("Temperature : "+str(temp))
    humidity = random.randint(0,100)
    print("Humidity : "+str(humidity)+"\n")
    if(temp > 36.5 and temp < 37.5):
        print("Low Body Temperature")
    else:
        print("High Body Temperature")
    if(humidity > 30 and humidity < 60):
        print("Low Humidity")
    else:
        print("High Humidity")
    if((temp > 36.5 and temp < 37.5) and (humidity >
30 and humidity < 60)):
        print("All is good")
    time.sleep(1)
```

Output :

IBM Assignment-2.py - H:\python\IBM Assignment-2.py (3.9.13)

File Edit Format Run Options Window Help

```
import random
import time
while(True):
    temp = round(random.uniform(10,50),1)
    print("Temperature : "+str(temp))
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    else:
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    if((temp > 36.5 and temp < 37.5) and (humidity > 30 and humidity < 60)):
        print("All is good")
    time.sleep(1)
```

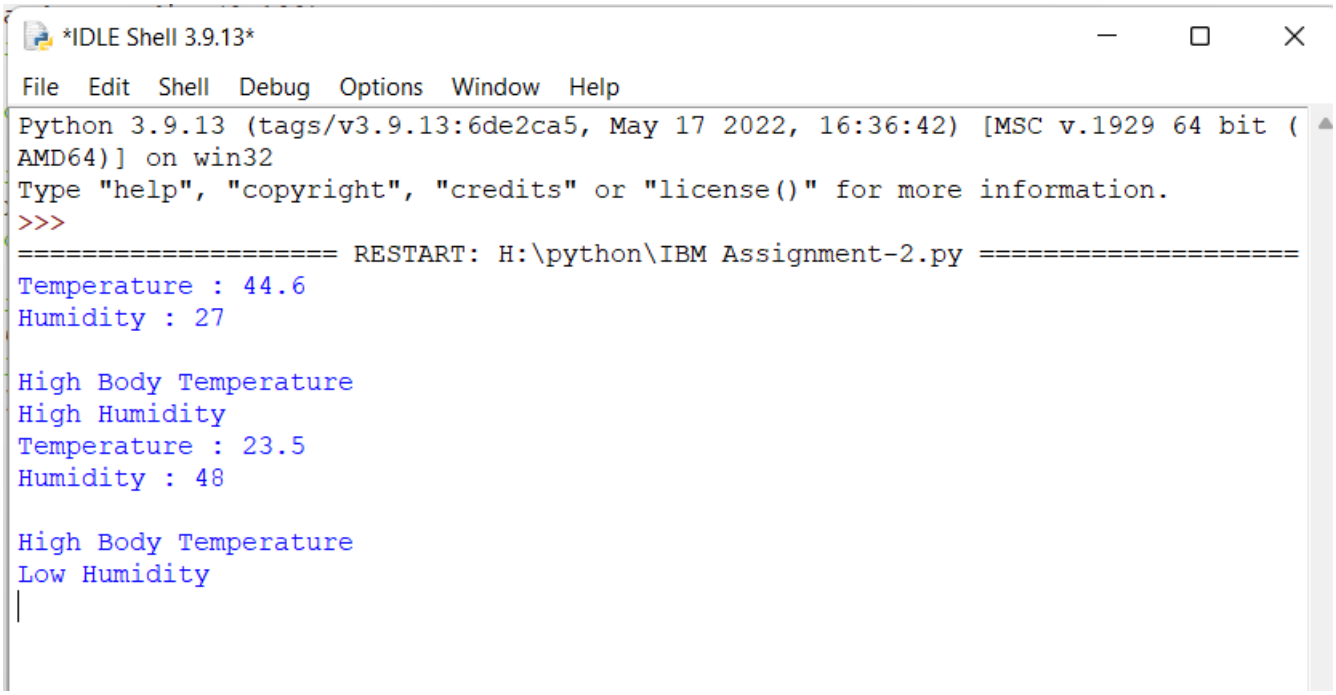
IDLE Shell 3.9.13
File Edit Shell Debug Options Window Help
Python 3.9.13 (tags/v3.9.13:6de2ca5, May 17 2022, 16:36:42) [MSC v.1929 64 bit (
AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: H:\python\IBM Assignment-2.py ==========
Temperature : 44.6
Humidity : 27
High Body Temperature
High Humidity
Temperature : 23.5
Humidity : 48
High Body Temperature
Low Humidity