

Assignment - 2

Python Programming

Assignment Date	20 September 2022
Student Name	Mr.N.Nithyananthan
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Maximum Marks	2 Marks

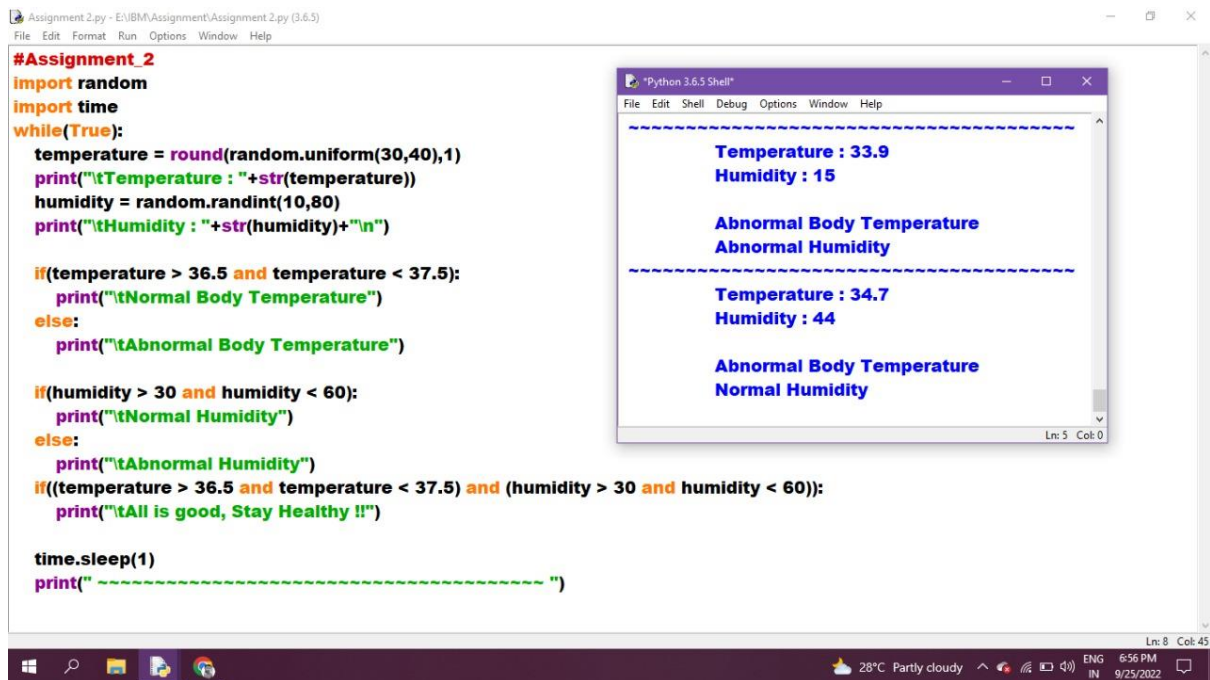
Question :

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.

Solution :

```
import random
import time
while(True):
    temperature = round(random.uniform(30,40),1)
    print("\tTemperature : "+str(temperature))
    humidity = random.randint(10,80)
    print("\tHumidity : "+str(humidity)+"\n")
    if(temperature > 36.5 and temperature < 37.5):
        print("\tNormal Body Temperature")
    else:
        print("\tAbnormal Body Temperature")
    if(humidity > 30 and humidity < 60):
        print("\tNormal Humidity")
    else:
        print("\tAbnormal Humidity")
    if((temperature > 36.5 and temperature < 37.5) and (humidity > 30 and humidity < 60)):
        print("\tAll is good, Stay Healthy !!")
    time.sleep(1)
    print(" ~~~~~~ ")
```

Output :



The image shows a Python script in a text editor and its execution output in a terminal window. The script, titled "Assignment 2.py", uses the random module to generate temperature and humidity values. It then checks these values against specific ranges to determine if they are normal or abnormal. The output window shows two iterations of the script's execution, displaying the generated values and the corresponding status messages.

```
#Assignment 2
import random
import time
while(True):
    temperature = round(random.uniform(30,40),1)
    print("\tTemperature : "+str(temperature))
    humidity = random.randint(10,80)
    print("\tHumidity : "+str(humidity)+"\n")

    if(temperature > 36.5 and temperature < 37.5):
        print("\tNormal Body Temperature")
    else:
        print("\tAbnormal Body Temperature")

    if(humidity > 30 and humidity < 60):
        print("\tNormal Humidity")
    else:
        print("\tAbnormal Humidity")
    if((temperature > 36.5 and temperature < 37.5) and (humidity > 30 and humidity < 60)):
        print("\tAll is good, Stay Healthy !!")

    time.sleep(1)
    print("-----")
```

Python 3.6.5 Shell

```
-----
Temperature : 33.9
Humidity : 15

Abnormal Body Temperature
Abnormal Humidity
-----
Temperature : 34.7
Humidity : 44

Abnormal Body Temperature
Normal Humidity
-----
```

Ln: 8 Col: 45

28°C Partly cloudy 6:56 PM 9/25/2022