Assignment - 2

Python Programming

Assignment Date	20 September 2022
Student Name	Mr.K.Kowsick
Student Roll Number	621319106045
Maximum Marks	2 Marks

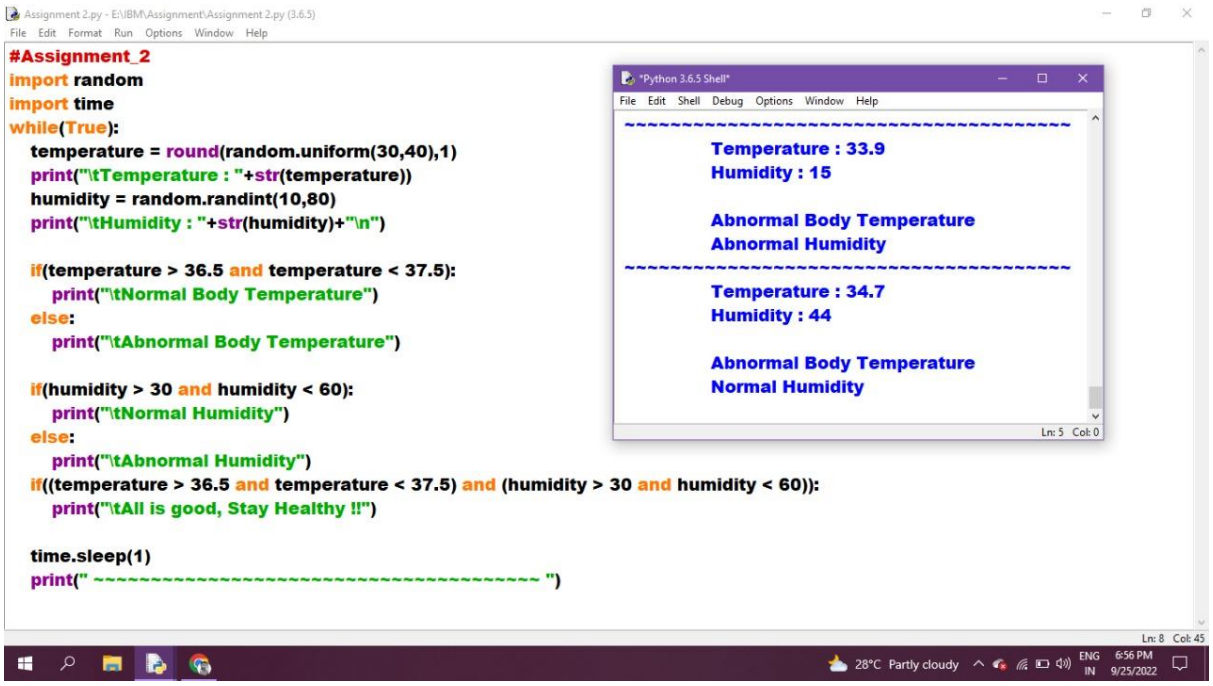
Question :

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 :


Assignment 2.py - E:\IBM\Assignment\Assignment 2.py (3.6.5)
File Edit Format Run Options Window Help
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if((temperature > 36.5 and temperature < 37.5) and (humidity > 30 and humidity < 60)):
print("\tAll is good, Stay Healthy !!")
time.sleep(1)
print(" ~~~~~~ ")
Ln: 8 Col: 45
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
~~~~~~
Temperature : 33.9
Humidity : 15
Abnormal Body Temperature
Abnormal Humidity
~~~~~~
Temperature : 34.7
Humidity : 44
Abnormal Body Temperature
Normal Humidity
Ln: 5 Col: 0
28°C Partly cloudy
ENG
IN
6:56 PM
9/25/2022