Assignment - 2

Python Programming

Assignment Date	20 September 2022
Student Name	Mr.K.V.Guna
Student Roll Number	621319106023
Maximum Marks	2 Marks

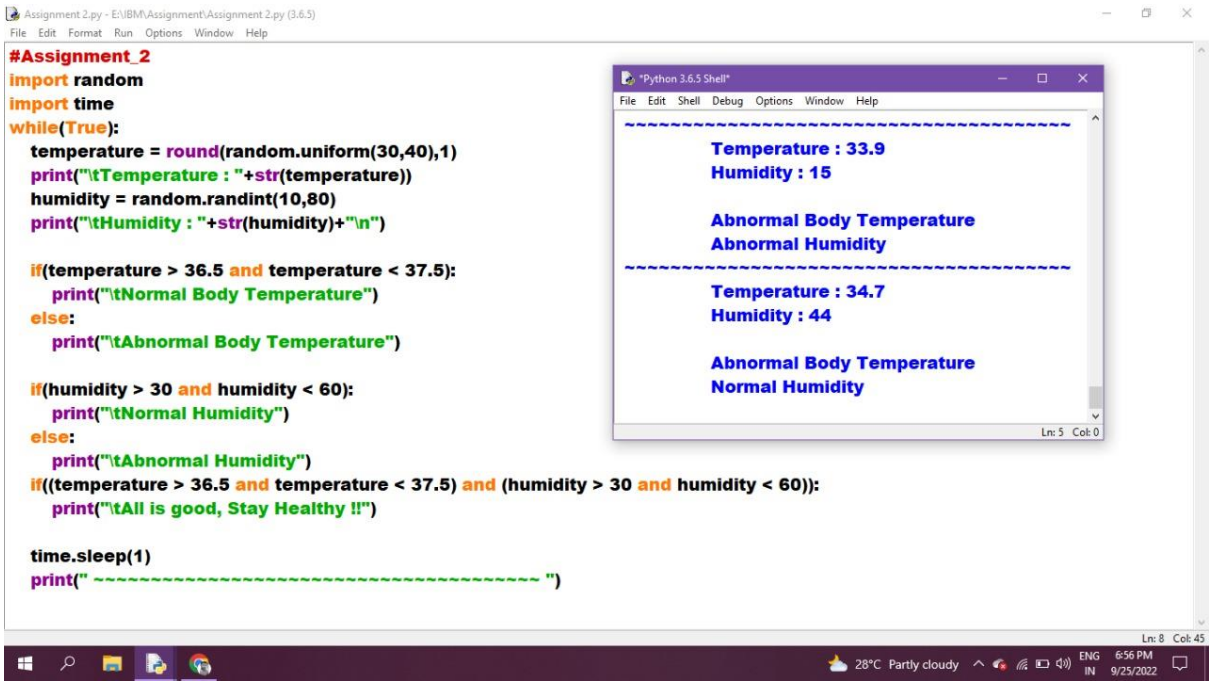
Question :

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
#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(" ~~~~~~ ")
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