

Assignment -2
Python Programming


Assignment Date	20 September 2022
Student Name	Mr.R.Guna
Student Roll Number	621319106305
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))
    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)
```

A *IDLE Shell 3.9.J3'

- 0 X

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