Assignment -2

Python Programming

Assignment Date	24 September 2022
Student Name	Mr. Ranga krishna prasadh H
Student Roll Number	CITC1904106
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."

Solution:

```python
import random
import time
alarm=False
while True:
    temp=random.uniform(1,100);
    humidity=random.uniform(1,100);
    if(temp>48):
        print("Warning!! high temperature("+str(round(temp,2))+"°C)")
        alarm=True
    else:
        print("Normal temperature("+str(round(temp,2))+"°C)")
        alarm=False
    time.sleep(2)
```

```
= RESTART: C:/Users/DELL/AppData/Local/Programs/Python/Python39/ibm assgn 2 temp
 threshold prg.py
Warning!! high temperature(87.42°C)
Warning!! high temperature(92.49°C)
Normal temperature(6.18°C)
Warning!! high temperature(79.72°C)
Warning!! high temperature(67.8°C)
Normal temperature(11.93°C)
Warning!! high temperature(84.9°C)
Warning!! high temperature(74.99°C)
Normal temperature(35.18°C)
Warning!! high temperature(64.62°C)
Normal temperature(28.45°C)
Normal temperature(27.25°C)
Warning!! high temperature(92.61°C)
Normal temperature(26.82°C)
Normal temperature(41.14°C)
Warning!! high temperature(91.53°C)
Normal temperature(20.45°C)
Normal temperature(24.54°C)
Warning!! high temperature(54.12°C)
Warning!! high temperature(48.44°C)
Normal temperature(32.41°C)
Warning!! high temperature(85.71°C)
Warning!! high temperature(60.14°C)
Normal temperature(24.41°C)
Warning!! high temperature(76.84°C)
Normal temperature(33.36°C)
Warning!! high temperature(67.71°C)
Warning!! high temperature(73.1°C)
Normal temperature(34.8°C)
Warning!! high temperature(99.04°C)
Warning!! high temperature(65.64°C)
```