Assignment -2

Python Programming

Assignment Date	26 September 2022
Student Name	Mr.B.Mathavan
Student Roll Number	621319106054
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:

```
import random
                           import time
                           while True:
                                temp=random.randint(25,203)
                                humi =random.randint(0, 100)
                                print("Temperature is: "+str(temp)+"°F")
                                print("Temperature in celsius: "+str(((temp-32)*5)//9)+"?")
                                print("The Humidity is: "+str(humi) + "%")
                                if (temp >= 100):
                                       print("High Temperature Alert: "+str(temp)+"°F")
                                time.sleep(10)
                                print("************")
                           #-----#
                                                                                                             Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7;6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bi
t (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
File Edit Format Run Options Window Help
  = RESTART: C:/Users/Mathavan B/AppData/Local/Programs/Python/Python310/Ass2.p
                                                                                                              y = Temperature is: 194°F
Temperature in celsius: 90?
The Humidity is: 100%
High Temperature Alert: 194°F
                                                                                                              Temperature is: 176°F
Temperature in celsius: 80?
The Humidity is: 80%
High Temperature Alert: 176°F
                                                                                                             Temperature is: 118°F
Temperature in celsius: 47?
The Hunidity is: 694
High Temperature Alert: 118°F
Temperature is: 124°F
Temperature in celsius: 51?
The Hunidity is: 494
High Temperature Alert: 124°F
Temperature is: 13°°F
                                                                                                              Temperature is: 137°F
Temperature in celsius: 58?
The Humidity is: 38%
High Temperature Alert: 137°F
Temperature is: 29°F
Temperature in celsius: -2?
The Humidity is: 35%
```