ASSIGNMENT-2

PYTHON PROGRAM

ASSIGNMENT DATE	19th Sep 2022
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ROLL NO	960219106028
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:

PROGRAM:

```
import random

while(True):

  a=random.randint(10,99)

  b=random.randint(10,99)

  if(a>35 and b>60):

     print("high temperature and humidity of:",a,b,"%","alarm is on")

  elif(a<35 and b<60):

     print("Normal temprature and humidity of:",a,b,"%","alarm is off")

  break
```

OUTPUT:

```
Python 3.7.0 Shell

File  Edit  Shell  Debug  Options  Window  Help

Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
============= RESTART: C:/Users/ELCOT/Desktop/M.Anusha/python.py =============
high temperature and humidity of: 38 66 % alarm is on
high temperature and humidity of: 98 79 % alarm is on
high temperature and humidity of: 88 71 % alarm is on
Normal temperature and humidity of: 18 53 % alarm is off
>>>
============= RESTART: C:/Users/ELCOT/Desktop/M.Anusha/python.py =============
high temperature and humidity of: 98 82 % alarm is on
Normal temperature and humidity of: 17 30 % alarm is off
>>>
============= RESTART: C:/Users/ELCOT/Desktop/M.Anusha/python.py =============
Normal temperature and humidity of: 27 48 % alarm is off
>>>
============= RESTART: C:/Users/ELCOT/Desktop/M.Anusha/python.py =============
Normal temperature and humidity of: 14 47 % alarm is off
>>>
============= RESTART: C:/Users/ELCOT/Desktop/M.Anusha/python.py =============
high temperature and humidity of: 99 63 % alarm is on
high temperature and humidity of: 94 70 % alarm is on
Normal temperature and humidity of: 20 57 % alarm is off
>>>
============= RESTART: C:/Users/ELCOT/Desktop/M.Anusha/python.py =============
high temperature and humidity of: 68 99 % alarm is on
high temperature and humidity of: 43 88 % alarm is on
high temperature and humidity of: 68 79 % alarm is on
high temperature and humidity of: 97 74 % alarm is on
Normal temperature and humidity of: 14 50 % alarm is off
>>>
```