

ASSIGNMENT-2
PYTHON PROGRAM

ASSIGNMENT DATE	19 th Sep 2022
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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/Projects/Assignments/Anusha(team member)/python.py
high temperature and humidity of: 49 78 % alarm is on
Normal temperature and humidity of: 10 17 % alarm is off
>>>
RESTART: C:/Users/ELCOT/Desktop/Projects/Assignments/Anusha(team member)/python.py
high temperature and humidity of: 74 68 % alarm is on
Normal temperature and humidity of: 31 56 % alarm is off
>>>
RESTART: C:/Users/ELCOT/Desktop/Projects/Assignments/Anusha(team member)/python.py
high temperature and humidity of: 65 83 % alarm is on
high temperature and humidity of: 90 66 % alarm is on
Normal temperature and humidity of: 12 57 % alarm is off
>>>
RESTART: C:/Users/ELCOT/Desktop/Projects/Assignments/Anusha(team member)/python.py
high temperature and humidity of: 92 82 % alarm is on
high temperature and humidity of: 45 78 % alarm is on
high temperature and humidity of: 51 70 % alarm is on
high temperature and humidity of: 66 94 % alarm is on
high temperature and humidity of: 38 95 % alarm is on
high temperature and humidity of: 70 65 % alarm is on
high temperature and humidity of: 49 62 % alarm is on
high temperature and humidity of: 94 83 % alarm is on
high temperature and humidity of: 72 78 % alarm is on
high temperature and humidity of: 53 66 % alarm is on
Normal temperature and humidity of: 30 26 % alarm is off
>>>
```