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ASSIGNMENT – 2

QUESTION:

Build a python code, assume you 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>50 and b>80):

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

    elif(a<45 and b<65):

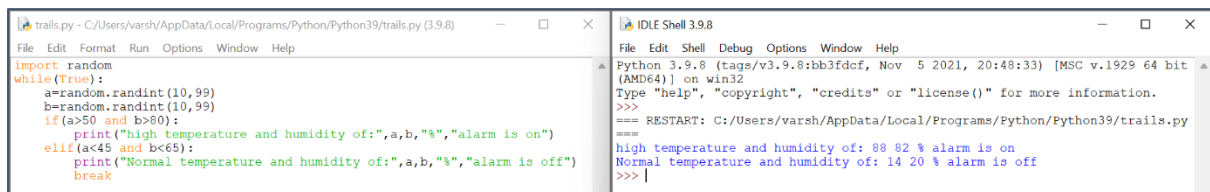
        print("Normal temperature and humidity of:",a,b,"%","alarm is off")

    break
```

OUTPUT:

Normal temperature and humidity of: 42 21 % alarm is off

PRACTICAL WORK:

The screenshot shows a Python IDE window titled 'trails.py - C:/Users/varsh/AppData/Local/Programs/Python/Python39/trails.py (3.9.8)'. The code in the editor is the same as provided in the solution. To the right, the 'IDLE Shell 3.9.8' window shows the execution output. It displays the Python version and architecture, followed by a restart message. The output shows two lines: 'high temperature and humidity of: 88 82 % alarm is on' and 'Normal temperature and humidity of: 14 20 % alarm is off', which correspond to the conditions in the code. The prompt '>>>' is visible at the bottom of the shell window.

```
Python 3.9.8 (tags/v3.9.8:bb3fddf, Nov 5 2021, 20:48:33) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
=== RESTART: C:/Users/varsh/AppData/Local/Programs/Python/Python39/trails.py ===
high temperature and humidity of: 88 82 % alarm is on
Normal temperature and humidity of: 14 20 % alarm is off
>>> |
```