

ASSIGNMENT 2

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Build a python code, Assume you get temperature and humidity values (generated with random function to a variable) and write a condition continuously detect alarm in case of high temperature.

PROGRAM

```
import os

import random

while(True):

    m=random.randint(5,90)

    n=random.randint(5,90)

    if(m>=6 and n>=90):

        print("High temperature and humidity of:",m,n,"%","alarm is on")

    elif(m<6 and n<90):

        print("Normal temperature and humidity of:",m,n,"%","alarm is off")

    break
```

OUTPUT

The screenshot displays the JDoodle Online Python 3 IDE interface. The code editor contains the Python script for generating random temperature and humidity values and checking for an alarm condition. The 'Execute' button has been clicked, and the output is visible in the terminal area at the bottom. The output shows three iterations of the program's execution, with the first two showing 'alarm is on' and the third showing 'alarm is off'.

```
1 import os
2 import random
3 while(True):
4     m=random.randint(5,90)
5     n=random.randint(5,90)
6     if(m>=6 and n>=90):
7         print("High temperature and humidity of:",m,n,"%","alarm is on")
8     elif(m<6 and n<90):
9         print("Normal temperature and humidity of:",m,n,"%","alarm is off")
10    break
```

Result
CPU Time: 0.02 sec(s), Memory: 9450 kilobyte(s) executed in 0

```
High temperature and humidity of: 68 90 % alarm is on
High temperature and humidity of: 79 90 % alarm is on
Normal temperature and humidity of: 5 43 % alarm is off
```