

NALAIYA THIRAN

IOT ASSIGNMENT

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1. Build a python code Assume 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.

Sol:

```
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 temperature and humidity  
of:",a,b,"% ","alarm is off")
```

```
        break
```

```
assign2.py - C:/Users/Dell/AppData/Local/Programs/Python/Python310/assign2.py (3.10.7)
File Edit Format Run Options Window Help
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 temperature and humidity of:",a,b,"%","alarm is off")
        break
```

OUTPUT:

```
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1916 64-bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information
>>>
= RESTART: C:/Users/LENOVO/AppData/Local/Programs/Python/Python310/Python310.exe
>>>
normal temperature and humidity of: 32 54 % alarm is off
>>>
```