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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
```

Assignment(2).PY - C:/Users/Aysha/AppData/Local/Programs/Python/Python310/Assignment(2).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
```

IDLE Shell 3.10.7

File Edit Shell Debug Options Window Help

```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/Aysha/AppData/Local/Programs/Python/Python310/Assignment(2).PY
Y
normal temperature and humidity of: 34 20 % alarm is off
>>>
```

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