

ASSISGNMENT-2

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?

PROGRAM:

```
import random while(True):
```

```
    a=random.randint(10,99)
```

```
b=random.randint(10,99)
```

```
if(a>35 and b>60):
```

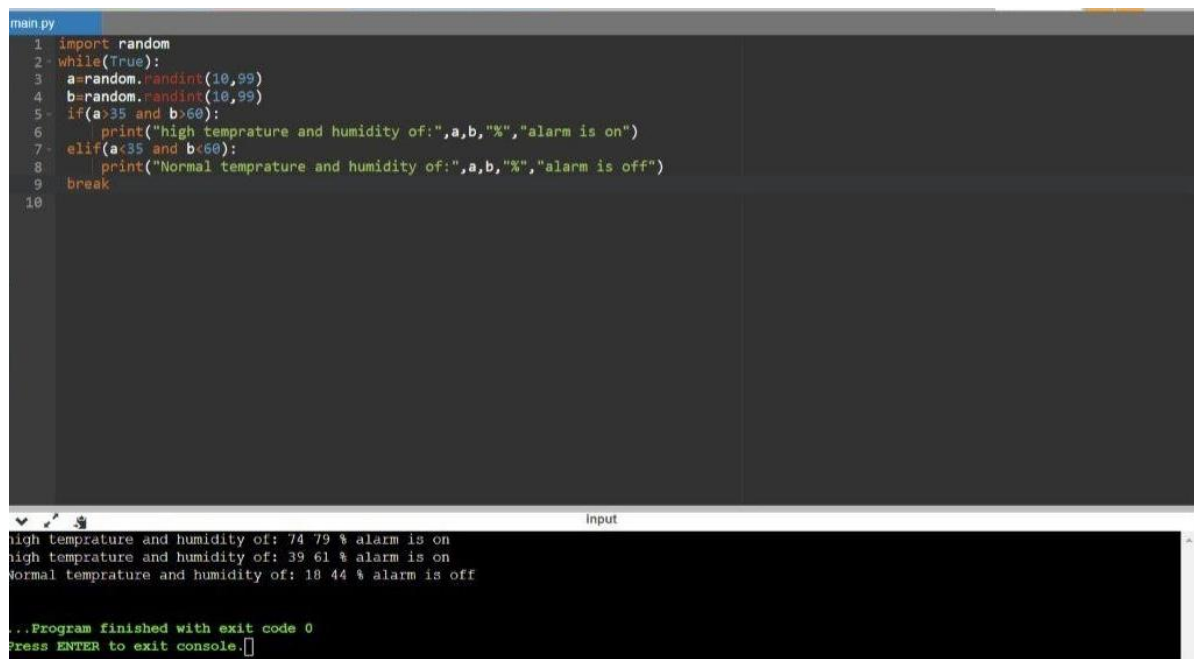
```
    print("high temprature and humidity of:",a,b,"%","alarm is on")
```

```
elif(a<35 and b<60):
```

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

```
break
```

OUTPUT:

The image shows a screenshot of a Python script named 'main.py' being executed in a console. The script uses a while loop to generate random temperature (a) and humidity (b) values between 10 and 99. It checks if the temperature is above 35 and humidity is above 60. If true, it prints 'high temprature and humidity of: {a} {b} % alarm is on'. If false, it prints 'Normal temprature and humidity of: {a} {b} % alarm is off'. The program then breaks. The console output shows three iterations: two with 'alarm is on' and one with 'alarm is off'. The program ends with 'Program finished with exit code 0' and a prompt to press ENTER to exit the console.

```
main.py
1 import random
2 while(True):
3     a=random.randint(10,99)
4     b=random.randint(10,99)
5     if(a>35 and b>60):
6         print("high temprature and humidity of:",a,b,"%","alarm is on")
7     elif(a<35 and b<60):
8         print("Normal temprature and humidity of:",a,b,"%","alarm is off")
9     break
10
```

high temprature and humidity of: 74 79 % alarm is on
high temprature and humidity of: 39 61 % alarm is on
Normal temprature and humidity of: 18 44 % alarm is off

...Program finished with exit code 0
Press ENTER to exit console.