

ASSIGNMENT 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 temperature and humidity of:",a,"%",b,"% is
sensed.", "\n Alarm is on")
    elif(a<35 and b<60):
        print("Normal temperature and humidity of:",a,"%",b,"% is
sensed", "\n Alarm is off")
    break
```

OUTPUT:

High temperature and humidity of: 85 % 69 % is sensed.

Alarm is on

High temperature and humidity of: 98 % 80 % is sensed.

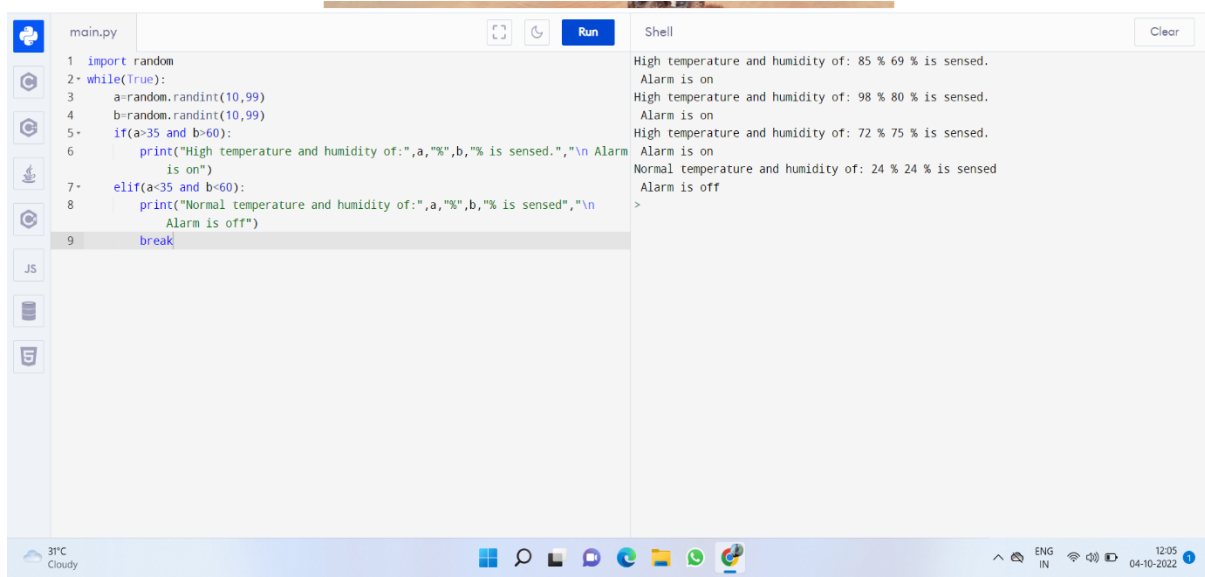
Alarm is on

High temperature and humidity of: 72 % 75 % is sensed.

Alarm is on

Normal temperature and humidity of: 24 % 24 % is sensed

Alarm is off



The screenshot shows a code editor with a file named 'main.py'. The code is a Python script that generates random temperature and humidity values and checks if they trigger an alarm. The output window shows the results of the script's execution.

```
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 temperature and humidity of:",a,"%",b,"% is sensed","\n Alarm
          is on")
7     elif(a<35 and b<60):
8         print("Normal temperature and humidity of:",a,"%",b,"% is sensed","\n
          Alarm is off")
9     break
```

Shell

```
High temperature and humidity of: 85 % 69 % is sensed.
Alarm is on
High temperature and humidity of: 98 % 80 % is sensed.
Alarm is on
High temperature and humidity of: 72 % 75 % is sensed.
Alarm is on
Normal temperature and humidity of: 24 % 24 % is sensed
Alarm is off
>
```

31°C Cloudy 12:05 04-10-2022