

ASSIGNMENT 2

Build a python code, Assume you 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.

CODE:

```
import random

while(True):

    temp = [20,30]

    hum=[50,70]

    rand_idx = random.randrange(len(temp))

    random_num = temp[rand_idx]

    n1=random.choice(temp)

    rand_jdx=random.randrange(len(hum))

    random_num=hum[rand_jdx]

    n2=random.choice(hum)

    if(n1>=24 and n2>=45 ):

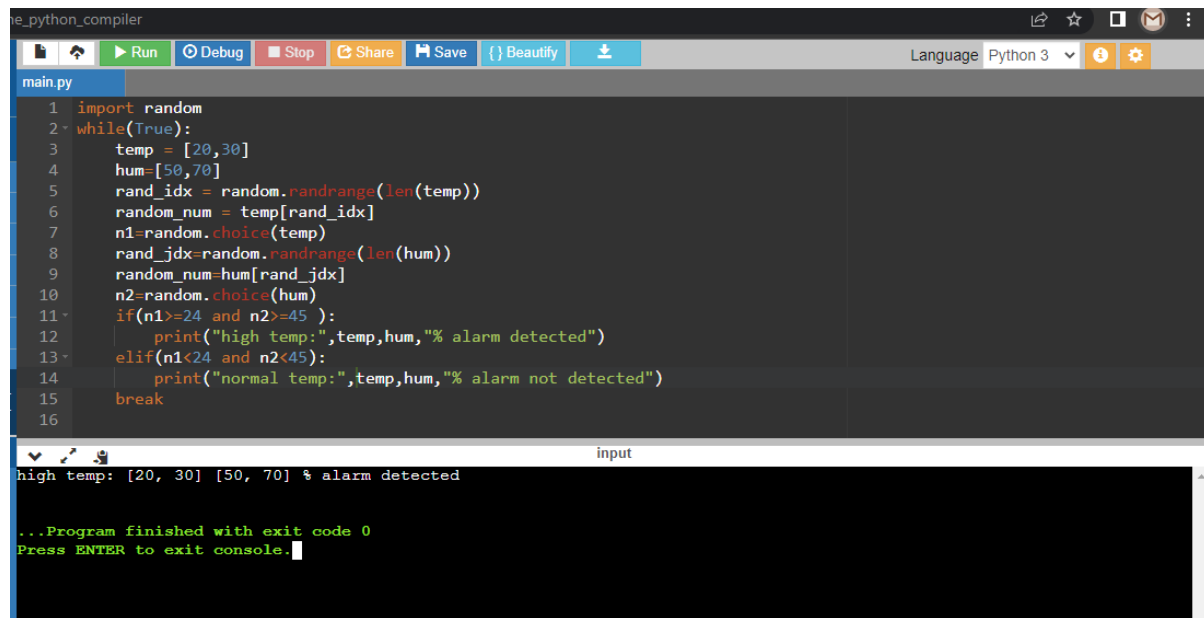
        print("high temp:",temp,hum,"%alarm detected")

    elif(n1<24 and n2<45):

        print("normal temp:",temp,hum,"%alarm not detected")

    break
```

OUTPUT:



The screenshot shows a web-based Python compiler interface. The top bar includes icons for file operations, a 'Run' button, 'Debug', 'Stop', 'Share', 'Save', and 'Beautify' options. The language is set to 'Python 3'. The code editor displays a file named 'main.py' with the following Python code:

```
1 import random
2 while(True):
3     temp = [20,30]
4     hum=[50,70]
5     rand_idx = random.randrange(len(temp))
6     random_num = temp[rand_idx]
7     n1=random.choice(temp)
8     rand_jdx=random.randrange(len(hum))
9     random_num=hum[rand_jdx]
10    n2=random.choice(hum)
11    if(n1>=24 and n2>=45 ):
12        print("high temp:",temp,hum,"% alarm detected")
13    elif(n1<24 and n2<45):
14        print("normal temp:",temp,hum,"% alarm not detected")
15    break
16
```

Below the code editor is a console window titled 'input'. It shows the output of the program: 'high temp: [20, 30] [50, 70] % alarm detected'. At the bottom of the console, it states '...Program finished with exit code 0' and 'Press ENTER to exit console.'

TEAM LEADER:

ABIRAMI R

TEAM MEMBERS:

ANUSHREE A

CHETANAPPRIYA K L

AISWARYA S G