

ASSIGNMENT II

PYTHON CODE WITH A CONDITION TO CONTINUOUSLY DETECT ALARM IN CASE OF HIGH TEMPERATURE

PYTHON CODE:

```
import random

a=int(input("Enter the starting value: "))

b=int(input("Enter the stop value: "))

i=1

while i<5:

    temperature=random.randint(a,b)

    humidity=random.randint(a,b)

    i+=1

    if temperature>75 and humidity>25:

        print("WARNING")

    else:

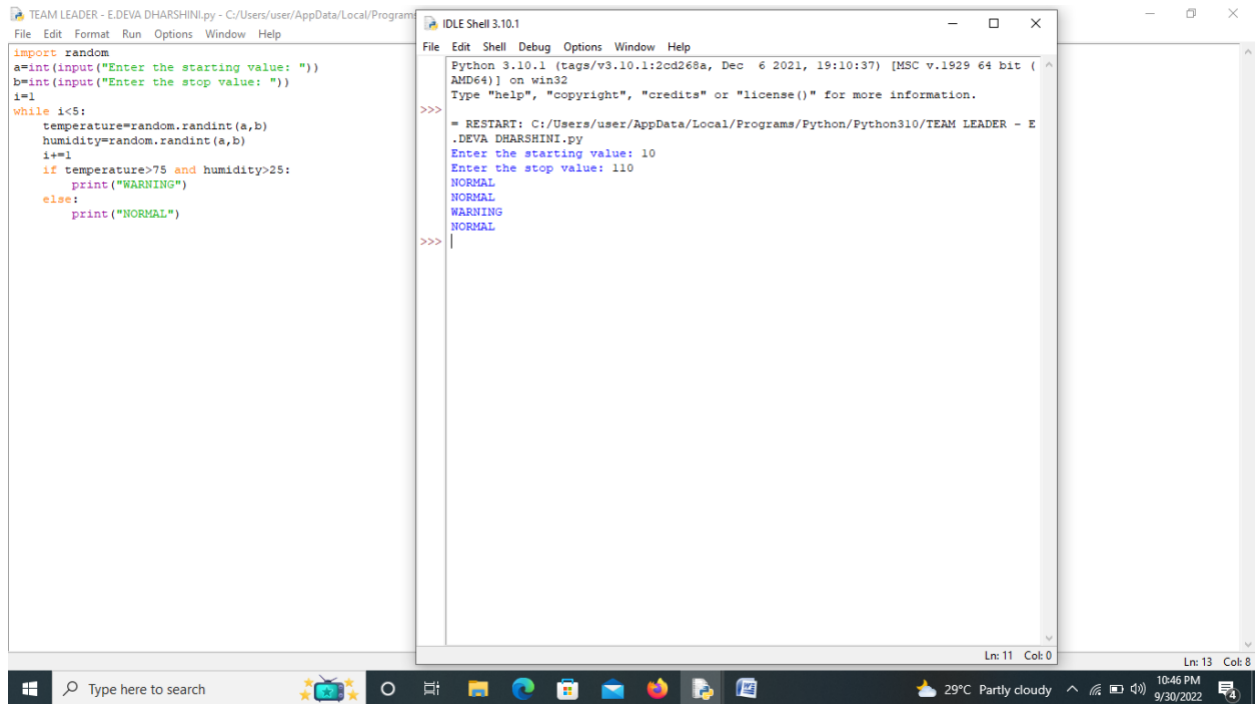
        print("NORMAL")
```

CODE IN PYTHON IDE-IDLE:

TEAM LEADER - E.DEVA DHARSHINI.py - C:/Users/user/AppData/Local/Programs/Python/Python310/TEAM LEADER - E.DEVA DHARSHINI.py (3.10.1)

```
File Edit Format Run Options Window Help
import random
a=int(input("Enter the starting value: "))
b=int(input("Enter the stop value: "))
i=1
while i<5:
    temperature=random.randint(a,b)
    humidity=random.randint(a,b)
    i+=1
    if temp>75 and hum>25:
        print("WARNING")
    else:
        print("WARNING")
```

OUTPUT:

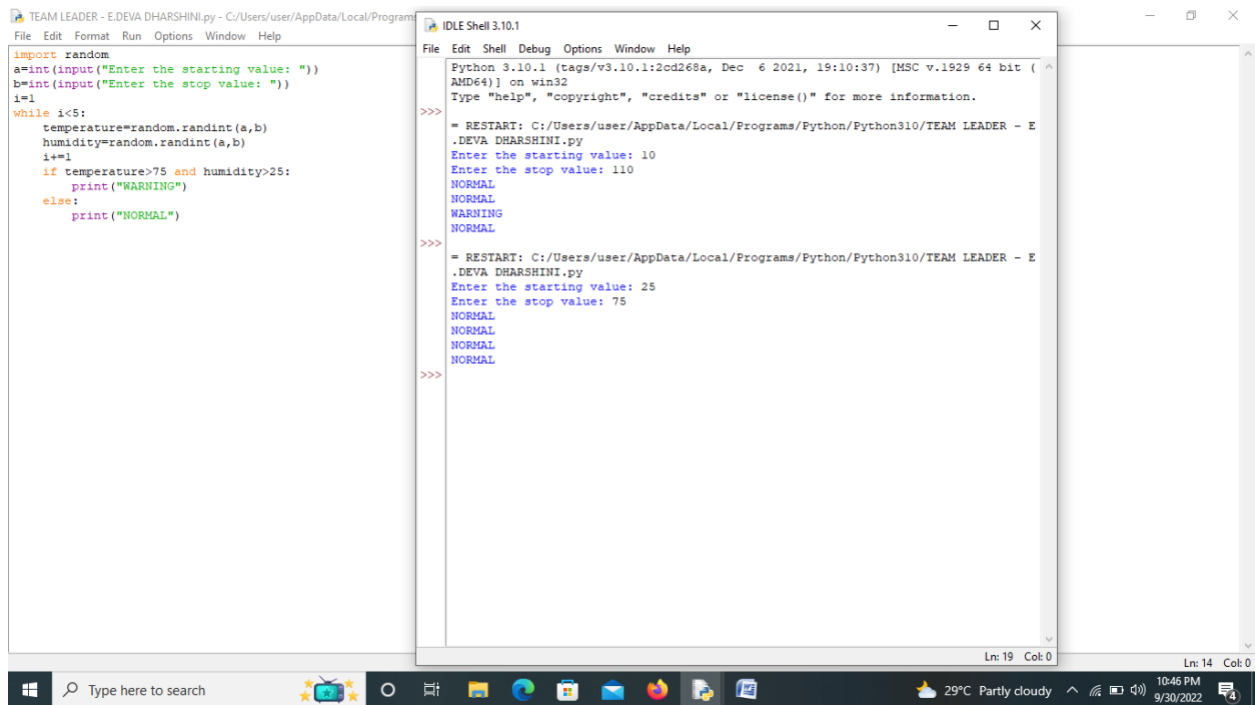


The screenshot shows a Windows desktop with a taskbar at the bottom. Two windows are open. The left window is a text editor titled 'TEAM LEADER - E.DEVA DHARSHINI.py' with the following code:

```
import random
a=int(input("Enter the starting value: "))
b=int(input("Enter the stop value: "))
i=1
while i<5:
    temperature=random.randint(a,b)
    humidity=random.randint(a,b)
    i+=1
    if temperature>75 and humidity>25:
        print("WARNING")
    else:
        print("NORMAL")
```

The right window is the IDLE Shell 3.10.1, showing the execution of the script. It displays the file path, the Python version, and the user's input for starting and stop values. The output shows 'NORMAL' for both temperature and humidity checks.

```
Python 3.10.1 (tags/v3.10.1:2cd268a, Dec 6 2021, 19:10:37) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/user/AppData/Local/Programs/Python/Python310/TEAM LEADER - E.DEVA DHARSHINI.py
Enter the starting value: 10
Enter the stop value: 110
NORMAL
NORMAL
WARNING
NORMAL
>>>
```



The screenshot shows the same Windows desktop with the same two windows. The left window contains the same Python script. The right window, IDLE Shell 3.10.1, shows the second execution of the script. The user has entered different starting and stop values, and the output shows 'NORMAL' for temperature and 'WARNING' for humidity.

```
Python 3.10.1 (tags/v3.10.1:2cd268a, Dec 6 2021, 19:10:37) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:/Users/user/AppData/Local/Programs/Python/Python310/TEAM LEADER - E.DEVA DHARSHINI.py
Enter the starting value: 10
Enter the stop value: 110
NORMAL
NORMAL
WARNING
NORMAL
>>>
= RESTART: C:/Users/user/AppData/Local/Programs/Python/Python310/TEAM LEADER - E.DEVA DHARSHINI.py
Enter the starting value: 25
Enter the stop value: 75
NORMAL
NORMAL
NORMAL
NORMAL
>>>
```