

## ASSIGNMENT II

### PYTHON CODE WITH A CONDIYION 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:

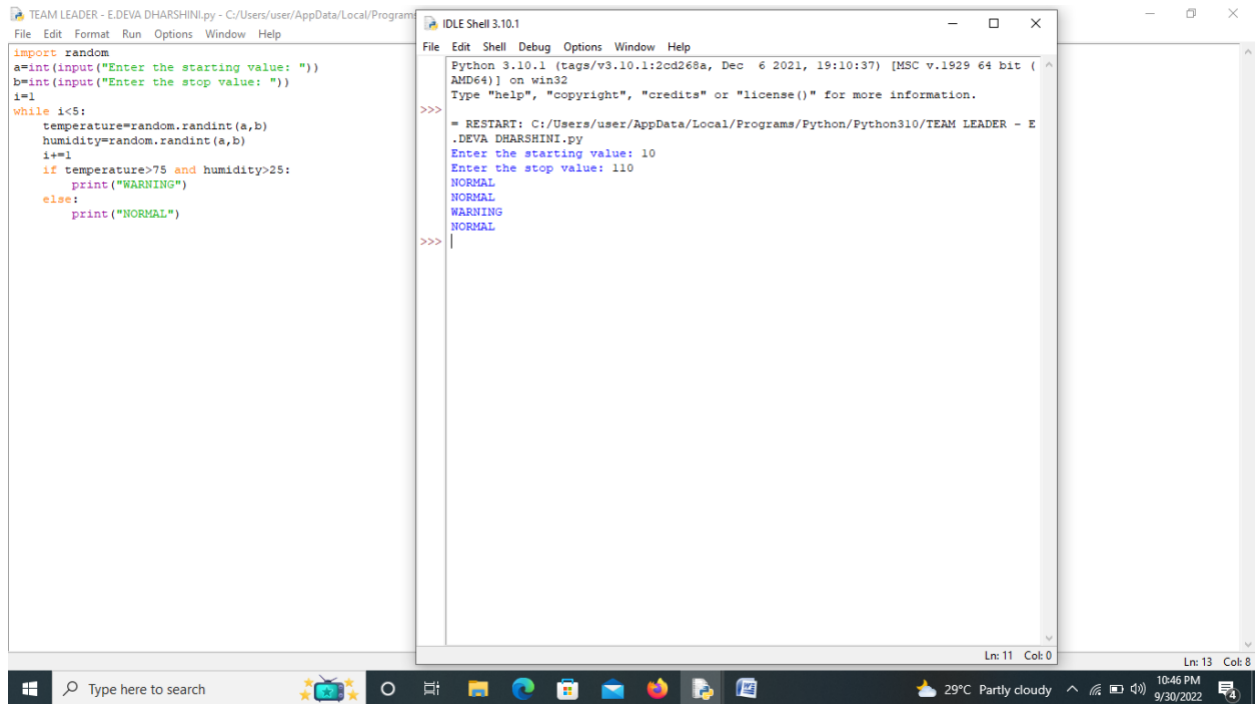
        print("NORMAL")
```

#### 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:



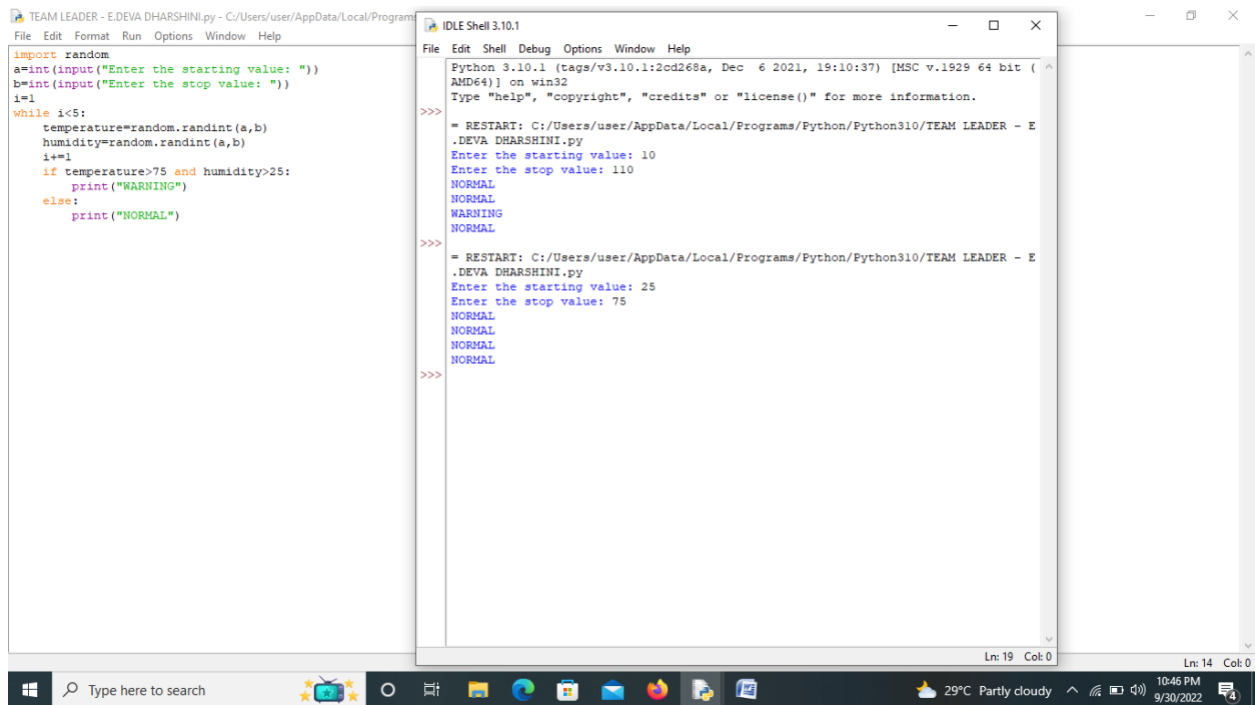
The screenshot shows a Windows desktop with a taskbar at the bottom. Two windows are open. The left window is a text editor titled 'TEAM LEADER - E.DEVA DHARSHINI.py' with the following code:

```
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. The output is:

```
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 taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right shows the date and time as 10:46 PM on 9/30/2022, and the weather as 29°C Partly cloudy.



The screenshot shows the same Windows desktop as the first image. The left window is the same text editor with the same Python code. The right window is the IDLE Shell 3.10.1, showing the execution of the script for a second time. The output is:

```
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
>>>
```

The taskbar at the bottom shows the search bar, task view button, and several application icons. The system tray on the right shows the date and time as 10:46 PM on 9/30/2022, and the weather as 29°C Partly cloudy.