

# Assignment-2

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## Objective:

Build a python code, assume you get temperature and humidity values (generated with a random function to a variable) and write a condition to detect an alarm in case of high temperature continuously.

## Python Code:

```
import random

while (True):

    temp=random.randint(10,99)

    humid=random.randint(10,99)

    print("current temperature:",temp)

    print("current humidity:",humid,"%")

    temp_ref=45

    humid_ref=45

    if temp<temp_ref and humid<humid_ref:

        print("Sound alarm")

    else:

        print("Sound off")

    break
```

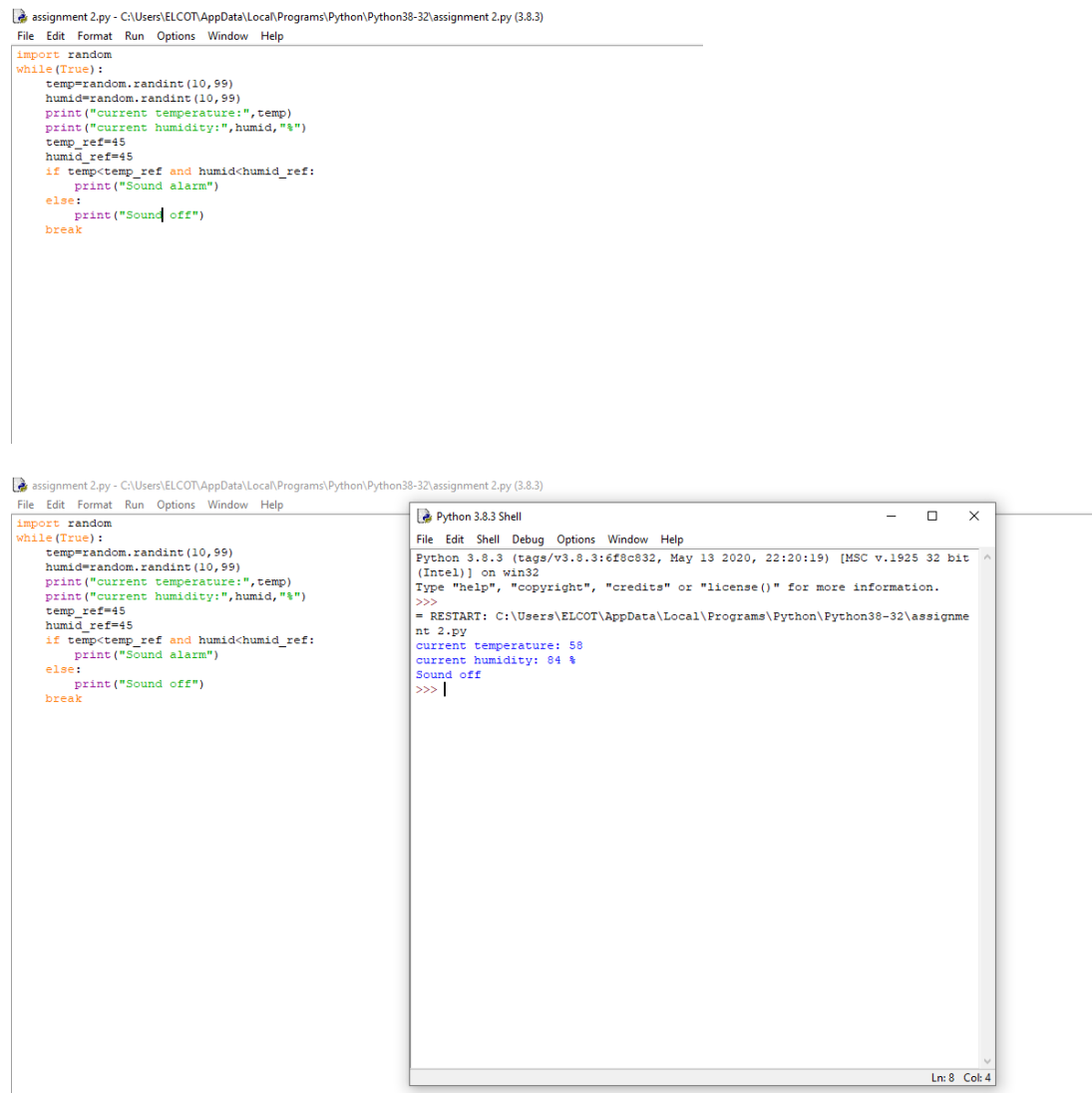
## Output:

Current temperature : 58

Current humidity : 84

Sound off

## Screenshots:



The left screenshot shows a Python script named 'assignment 2.py' in a text editor. The script uses the 'random' module to generate random temperature and humidity values. It includes a loop that prints these values and checks if the temperature is below a reference value (45) and the humidity is below a reference value (45). If both conditions are met, it prints 'Sound alarm'. Otherwise, it prints 'Sound off' and breaks the loop.

```
import random
while(True):
    temp=random.randint(10,99)
    humid=random.randint(10,99)
    print("current temperature:",temp)
    print("current humidity:",humid,"%")
    temp_ref=45
    humid_ref=45
    if temp<temp_ref and humid<humid_ref:
        print("Sound alarm")
    else:
        print("Sound off")
    break
```

The right screenshot shows the execution of the script in a Python 3.8.3 Shell. The output displays the current temperature and humidity values, followed by 'Sound off'.

```
Python 3.8.3 Shell
File Edit Shell Debug Options Window Help
Python 3.8.3 (tags/v3.8.3:6f8c832, May 13 2020, 22:20:19) [MSC v.1925 32 bit
(Intel)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\ELCOT\AppData\Local\Programs\Python\Python38-32\assignme
nt 2.py
current temperature: 58
current humidity: 84 %
Sound off
>>> |
```