How Can You Emulate Do-While Loops in Python ?

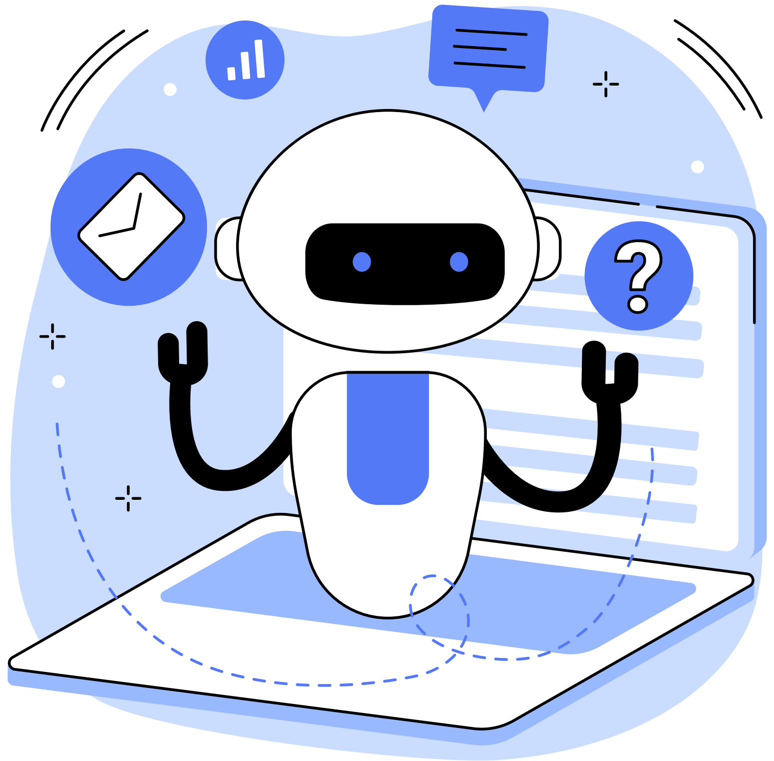
By : Hend abdelnasser

Python does not have a built-in do-while loop like other languages (e.g., C, C++, Java). However,we can emulate a do-while loop using a while True loop with a break statement inside.

How do-while Works

A do-while loop executes the code at least once before checking the condition.

The basic structure in other languages looks like this:



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How do-while Works

```
do {
    // Code to execute at least once
} while (condition);
```

Emulating do-while in Python

We can achieve this behavior in Python using a while True loop with a break statement.

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Example : Repeated Input Until Condition is Met

```
while True:
    num = int(input("Enter a positive number: "))  # Executes at least
once
    if num > 0:
        break  # Exit the loop when a positive number is entered

print(f"You entered: {num}")
```

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Explanation:

- The code inside the while True loop runs at least once.
- If the condition (num > 0) is met, the loop exits using break.
- Otherwise, the loop continues until a valid input is given.

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Example : Menu Selection

```python
while True:
    print("1. Option One")
    print("2. Option Two")
    print("3. Exit")
    choice = input("Enter your choice: ")

    if choice == "3":
        print("Exiting...")
        break  # Exit the loop if the user chooses 3
    print(f"You selected option {choice}. Try again.")
```

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How it Works:

- The menu is always displayed at least once.
- The user is prompted to make a choice.
- If the user enters "3", the program exits using break.
- Otherwise, it loops again, just like a do-while.

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