

Python Interactive Shell(interpreter) Project

I have written a program that works similar to the Python interactive environment (Python interpreter). In this program, the user can continuously enter commands, and the program processes and executes them just like Python does. The main difference between this program and the standard Python environment is the way it is terminated. In the Python interpreter, the program is usually stopped using Ctrl + Z (or Ctrl + D on some systems).

However, in my program, the execution continues until the user explicitly types the quit command. When quit is entered, the program stops running and exits gracefully.

It is important to note that this code is very simple and is designed mainly for learning and practice purposes. Despite its simplicity, it demonstrates the basic concept of how an interactive programming environment works.

Its code is as follows:

```
while True:  
    command=input("">>>>")  
    if command.lower()=="quit":  
        break  
    print(eval(command))
```

A screenshot of a Windows desktop environment. In the foreground, the Microsoft Visual Studio Code (VS Code) interface is open. The left sidebar shows a file named "python shell.py". The main editor area contains Python code for a simple shell. The right sidebar shows the terminal output:

```
PS C:\Users\king kamran> & "C:/Users/king kamran/Programs/Python/Python313/python.exe" "c:/Users/king kamran/Desktop/python shell.py"
>>>2+3
5
>>>4*2
8
>>>3>4
False
>>>
```

A yellow callout bubble labeled "Vscode" points to the VS Code window.

In the background, a command prompt window titled "Windows [Version 10.0.22631.2715]" is visible. It displays the Python interpreter's welcome message and some basic arithmetic operations:

```
C:\Users\king kamran>python
Python 3.13.6 (tags/v3.13.6:4e66535, Aug
Type "help", "copyright", "credits" or "li
>>> 2+3
5
>>> 4*2
8
>>> 3>4
False
```

A yellow callout bubble labeled "Python interpreter in CMD" points to the command prompt window. A cursor arrow is also visible near the bottom right of the screen.