**How to Use Pthon in Visual Studio Code**

1. Install Visual Studio Code

Before starting, ensure that you have Visual Studio Code installed on your system. You can download it from the official website: https://code.visualstudio.com/

1. Install Python Extension for Visual Studio Code

After installing Visual Studio Code, you need to install the Python extension. Here's how:

Open Visual Studio Code.

Click on the Extensions view icon on the left sidebar, or press Ctrl+Shift+X.

In the search bar, type "Python" and press Enter.

Locate the official Python extension by Microsoft and click the Install button.

1. Set Up the **Python Interpreter**

Once the Python extension is installed, you need to set up the Python interpreter. Here's how:

Click on the Python version on the bottom left corner of Visual Studio Code.

A dropdown list will appear. Select "Enter interpreter path" from the list.

In the new window that opens, you can either type the path to your Python interpreter manually or click on "Find..." to search for the Python executable on your system.

1. Write and Run Python Code in Visual Studio Code

Now you can write and run Python code in Visual Studio Code. Here's how:

Open or create a new Python file.

Write your Python code.

Save the file.

To run the code, you have a few options:

Right-click anywhere in the editor and select "Run Python File in Terminal" or "Debug Python File in Terminal".

Use the Run menu at the top of the screen.

Open the Command Palette by pressing Ctrl+Shift+P and typing "Python: Run Python File in Terminal" or "Python: Debug Python File in Terminal".

By following these steps, you can use Python in Visual Studio Code and efficiently write, debug, and run your Python code.