Ways to Run Python Programs

1. Python Shell

- Useful for running and testing small code snippets.
- Allows direct code execution without creating .py files.
- To exit the Python shell, type exit() and press Enter.

2. Running Python Files from the Command Line/Terminal

- Files with the .py extension can be executed via command line/terminal.
- Syntax: python filename.py.
- Example:

```
python hello_world.py
```

Advantages of Visual Studio Code (VS Code)

- Combines the benefits of Python shell and terminal execution.
- Offers features like:
 - Auto-completion.
 - Debugging tools.
 - Syntax highlighting.
 - Indentation and whitespace helpers.
- Allows running scripts directly using the Run or Debug buttons.

How to Run Python Programs in VS Code

- 1. Open a terminal within VS Code via **Terminal** > **New Terminal**.
- 2. Run a script using:
 - python filename.py in the terminal.
 - The Run Python File or Debug Python File options in the top-right corner.
- 3. The terminal opens automatically to display the output.

Key Takeaways

- Python programs can be run via the Python shell, command line, or IDE.
- VS Code enhances the Python development experience with additional features and ease of use.

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• You can switch between the methods based on your project needs or preferences.

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