

- **Python Commands:**

- `python` : Opens the Python REPL (Read-Eval-Print Loop).

```
Windows PowerShell
PS C:\k26rahu\Code\Vidhatri\2024-04-01> python
Python 3.10.11 (tags/v3.10.11:7d4cc5a, Apr 5 2023,
Type "help", "copyright", "credits" or "license" for
>>> 2 ** 10
1024
>>> print("Hello Vidhatri, You're super awesome")
Hello Vidhatri, You're super awesome
>>> |
```

- `python <file_path>` : Executes the Python script (file) located at the specified path.
 - Example:

```
python hello.py
```

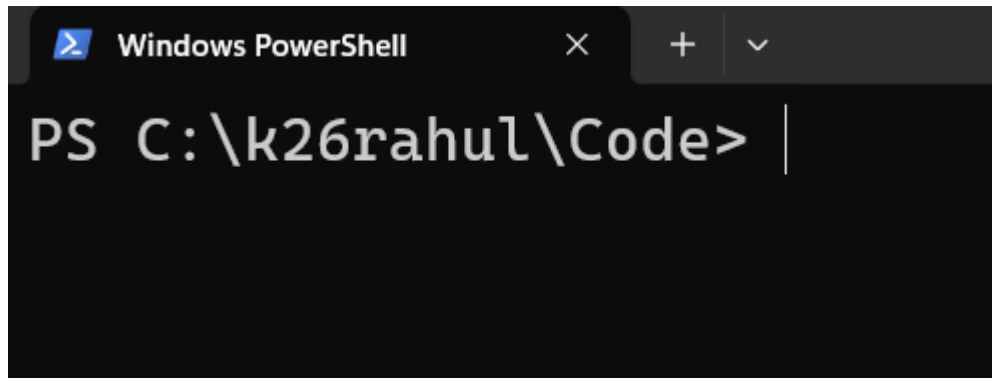
```
python week1/PPA1.py
```

```
Windows PowerShell
PS C:\k26rahu\Code\Vidhatri\2024-04-01> python hello.py
Hello Vidhatri, You're super awesome
This is super cool! 🥳🥳
We're the Wizards and we do magic
PS C:\k26rahu\Code\Vidhatri\2024-04-01> python loop20.py
Here is a tulip for Vidhatri 🌷
Here is a tulip for Vidhatri 🌷
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Here is a tulip for Vidhatri 🌷
PS C:\k26rahu\Code\Vidhatri\2024-04-01>
```

- **Python REPL:**

- `>>>` : Python prompt used in the REPL. Python code is entered after it.
- **REPL Cycle:**
 - **Read:** Python code is read.
 - **Eval:** Code is evaluated (executed).
 - **Print:** Result is printed.
 - **Loop:** Waits for more code; it's a loop.

- **Terminal Prompt:** `PS C:\k26rahu1\Code>`



- **PS (PowerShell):** Shell program for executing commands.
- **Working Directory:** The current folder (`C:\k26rahu1\Code`) you're operating in.

- **Commands:**

- You write commands after the prompt.
- `PS C:\k26rahu1\Code> command_here`

- **Directory Navigation:**

- `cd <folder_path>` : Change directory command to navigate within the file system.
 - Examples:
 - `cd C:\k26rahu1\Code\GitHub\IPL2023-Powerplay-Score-Prediction` : Move to the exact specified folder using an *absolute* path.
 - `.` represents the current directory in a *relative* folder path.
 - `..` represents the parent directory in a *relative* folder path.
 - `cd ..` : Move to the parent folder.
 - Example:
`PS C:\k26rahu1\Code\GitHub\DBMS-Notes> cd ..`
`PS C:\k26rahu1\Code\GitHub>`
 - `cd ../../` : Move to the parent folder of the parent folder.
 - Example:
`PS C:\k26rahu1\Code\GitHub\DBMS-Notes> cd ../../`
`PS C:\k26rahu1\Code>`
 - `cd ../../../../` : Move to the parent folder of the parent folder of the parent folder.
 - Example:

```
PS C:\k26rahul\Code\GitHub\DBMS-Notes> cd ../../../../
PS C:\k26rahul>
```

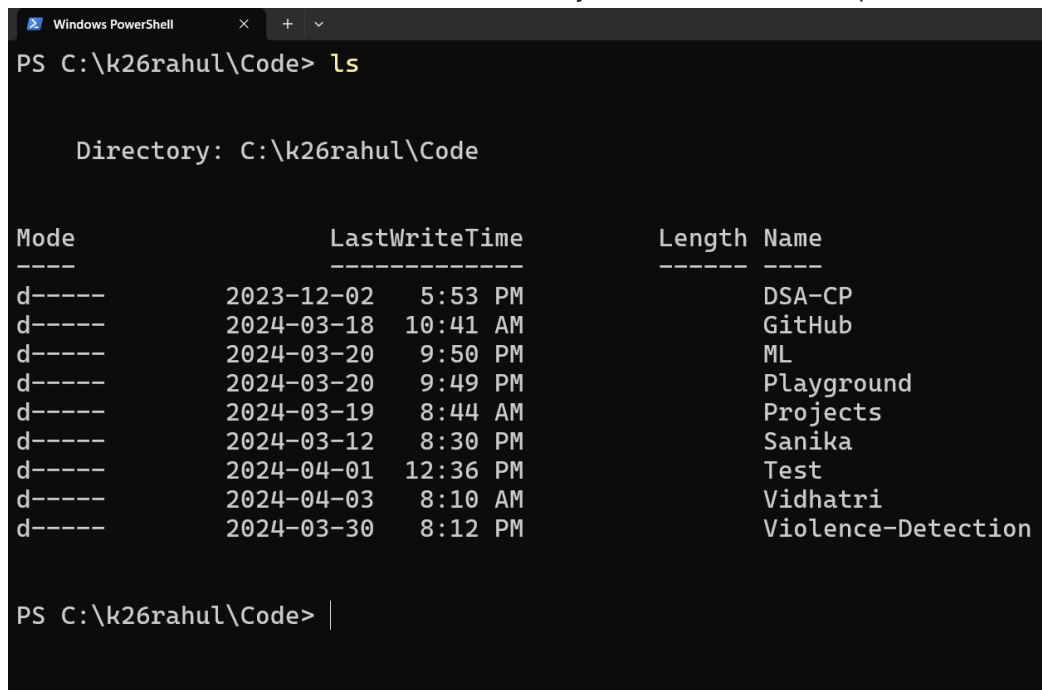
- `cd GitHub` or `cd ../GitHub` : Move to the `GitHub` folder in the current directory.
 - Example:

```
PS C:\k26rahul\Code> cd GitHub
PS C:\k26rahul\Code\GitHub>
```
- `cd ../../GitHub` : Move to the `GitHub` folder in the parent directory.
 - Example:

```
PS C:\k26rahul\Code\Vidhatri> cd ../../GitHub
PS C:\k26rahul\Code\GitHub>
```

- **Listing Files and Folders (`ls`):**

- Lists all files and folders in the current directory; same as Windows Explorer.



```
Windows PowerShell
PS C:\k26rahul\Code> ls

Directory: C:\k26rahul\Code

Mode                LastWriteTime         Length Name
----                -
d-----          2023-12-02   5:53 PM             DSA-CP
d-----          2024-03-18  10:41 AM             GitHub
d-----          2024-03-20   9:50 PM              ML
d-----          2024-03-20   9:49 PM          Playground
d-----          2024-03-19   8:44 AM          Projects
d-----          2024-03-12   8:30 PM           Sanika
d-----          2024-04-01  12:36 PM            Test
d-----          2024-04-03   8:10 AM          Vidhatri
d-----          2024-03-30   8:12 PM    Violence-Detection

PS C:\k26rahul\Code> |
```

- **VS Code Shortcuts:**

- `Ctrl+,` : Open settings.
- `Ctrl+Mouse Wheel` : Zoom in/out.
- `Ctrl+D` : Select occurrences of the selected word. Press repeatedly to select more words.
- `Alt+Up/Down` : Move the selected line up or down.
- `Ctrl+Alt+Up/Down` : Add multiple cursors up or down to edit multiple lines simultaneously.
- `Home` : Go to the start of the line.
- `End` : Go to the end of the line.
- `Shift+Home` : Select everything from the current cursor location to the start of the line.

- **Shift+End** : Select everything from the current cursor location to the end of the line.
- **Shift+Arrow Keys** : Select characters one by one.
- **Ctrl+C** : Copy.
- **Ctrl+V** : Paste.
- **Ctrl+X** : Cut.
- **Ctrl+A** : Select all.
- **Ctrl+S** : Save the current file.
- **Ctrl+Shift+S** : Save as a new file.