Escape Sequences:

- Escape sequences are special symbols in Python used inside strings to represent things like newline, tab, quotes, etc.
- They always start with a backslash (\).

Common Escape Sequences:

```
\n : Newline → "Hello\nWorld" → Hello (newline) World \t : Tab (space) → "Hello\tWorld" → Hello World \\ : Backslash → "C:\\Users\\Ali" → C:\\Users\Ali \\ " : Double Quote → "He said \"Hi\"" → He said "Hi" \\ ' : Single Quote → 'It\'s Python' → It's Python
```

Why Use Escape Sequences?

- To format output properly (new lines, spaces).
- To include quotes inside strings without error.
- To represent file paths (C:\Users\Name).

Importance of Escape Sequences:

- Without escape sequences, output formatting becomes messy.
- Helps in creating clean, user-friendly output.

Comments:

- Comments are non-executable lines in code (Python ignores them).
- Used to explain code and make it readable.

Types of Comments in Python:

1. **Single-line Comment** \rightarrow starts with #

Example: # This is a single-line comment

2. **Multi-line Comment** → use triple quotes "" " or """"

Importance of Comments:

- Makes code easy to understand for others.
- Helps you remember logic when you read code later.
- Used by professional developers in big projects.