Bash Arguments Shortcuts

- 1. Access the last argument of the previous command !\$
- -!\$
 - 2. Reuse the entire previous command -!!
- **–**!
 - 3. Use Alt + . (dot) to insert the last argument interactively

```
cat <Alt + .>
```

Other Bash Shortcuts

1. Print the Current PID of the current shell

```
echo $$
```

2. Print the **PID** of the most recently executed background job

```
echo $!
```

- 2. Command History Shortcuts
- $!n \rightarrow \text{Run command number } n \text{ from history}$ 125
- !string \rightarrow Run the most recent command starting with string !echo
 - Runs the last command that started with echo.

Wildcards (Globbing)

In Linux (globbing patterns), wildcards are special characters that help you match and select files and directories using a pattern.

1. * (Asterisk) – Matches any number of characters (including none).

```
ls *.txt
rm file*
```

2. ? (Question Mark) - Matches exactly one character.

```
ls file?.txt
```

3. [] (Square Brackets) – Matches any one character inside the brackets.

```
ls file[1-4].txt
```

4. {} (Brace Expansion) – Expands into multiple values.

```
touch file{1..4}.txt
mkdir {work,personal,projects}
```

5. ! or `inside [] - Matches anything except the given characters.

```
ls file[!0-9].txt
```

Advanced Expansion Tricks

6. Brace Expansion with Step Size

```
echo \{1..10..2\}
```

7. Expanding Letters

```
echo {a..f}
```

8. Using \$(command) to Insert Output into a Command bash touch file_\$(date +%Y-%m-%d).txt

Where to store scripts

Best Practices

- Personal scripts: ~/bin/
- System-wide scripts: /usr/local/bin/
- Admin scripts: /usr/local/sbin/