04-file-operations.md 2025-07-22

File Operations in Detail

1. Creating Directories and Subdirectories

To organize files, you often need to create directories (folders) and subdirectories.

• Command Line (Linux):

```
mkdir project
mkdir project/src
```

2. Creating Files

You can create files using command line tools or programmatically.

- Command Line:
 - Linux/macOS: touch project/src/file.txt

3. Copying Files Between Directories

Copying files helps duplicate content or backup data.

• Command Line (Linux):

```
cp project-1/file.txt project-2/src/file.txt
```

4. Moving Files Using Relative Paths

Moving files transfers them from one location to another, possibly between sibling directories.

• Directory Structure Example:

Command Line (Linux/macOS):

```
mv parentDir/dirA/file.txt parentDir/dirB/
```

04-file-operations.md 2025-07-22

Relative Path:

When moving from dirA to sibling dirB, use .../dirB/ as the relative path from inside dirA.

• Example:

mv file.txt ../dirB/