Open wsl

Commands to learn

Pwd

Ls

Cd

Mkdir

Touch

Cp

Mv

Rm

Cat

Head/tail

More/ less

Grep

Inkscape converstion

Pdf unite

Bash scritps

Lesson Plan: Introduction to Command Line Basics

Objective:

By the end of this lesson, students will be able to navigate directories, create, copy, move, and delete files and directories, and perform basic file operations using the command line interface.

Duration: 90 minutes

Materials Needed:

Computers with a command line interface (e.g., Terminal for macOS/Linux, Command Prompt for Windows)

Sample files and directories for practice

Handouts with command reference

Lesson Outline:

1. Introduction (10 minutes)

Welcome students and introduce the topic of command line basics.

Explain the importance of command line skills for programming, system administration, and other technical tasks.

Provide an overview of what will be covered in the lesson.

2. Getting Started (10 minutes)

Demonstrate how to open the command line interface on different operating systems.

Explain basic terminology (e.g., shell, prompt, command, argument).

Discuss common command line conventions (e.g., using flags, file paths).

3. Navigating the File System (20 minutes)

Teach basic navigation commands:

* pwd: Print the current working directory.
* ls: List files and directories.
* cd: Change directory.

Demonstrate how to navigate through directories, including absolute and relative paths.

Have students practice navigating different directories on their own.

4. Working with Files and Directories (30 minutes)

Teach file and directory manipulation commands:

* mkdir: Create a directory.
* touch: Create an empty file.
* cp: Copy files and directories.
* mv: Move (or rename) files and directories.
* rm: Remove files and directories.

Explain common flags and options for each command.

Provide examples and demonstrations for each command.

Have students practice creating, copying, moving, and deleting files and directories.

5. Basic File Operations (15 minutes)

Introduce basic file operations:

* cat: Display file contents.
* head/tail: Display the beginning/end of a file.
* more/less: Paginate through file contents.
* grep: Search for patterns within files.

Explain how these commands can be used to view and manipulate file contents.

Demonstrate examples of each command.

Allow students to practice using these commands on sample files.

6. Conclusion and Review (5 minutes)

Summarize key concepts covered in the lesson.

Address any questions or concerns from students.

Encourage students to practice and explore further on their own.

Provide additional resources for further learning.

Homework/Practice:

Assign practice exercises for students to reinforce their understanding of command line basics.

Encourage students to explore more commands and experiment with different options and flags on their own time.

Provide resources such as online tutorials or interactive command line environments for additional practice.

Assessment:

Informally assess students' understanding through observation during in-class activities and exercises.

Evaluate students' completion of homework assignments and their ability to demonstrate command line skills in future activities or assessments.