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Notes 3

https://cis106.com/extra/thelinuxfs/

File System

- Definition:
 - The structure in which files and directories are organized on a computer.

Pathname

- Definition:
 - The location of a file or directory within the file system, can be absolute or relative.

Absolute Path

- Definition:
 - The full path to a file starting from the root directory.
- Example:
 - /home/user/Documents/file.txt

Relative Path

- Definition:
 - The path relative to the current directory.
- Example:
 - ../Documents/file.txt (one directory up)

Difference Between "Your Home" and "The Home" Directory

- Your Home Directory:
 - The user-specific directory where personal files are stored.
 - Example: /home/username
- The Home Directory:
 - The parent directory of all user home directories.
 - Example: /home

Parent Directory

- Definition:
 - The directory above the current directory.

Child Directory

- Definition:
 - Also known as a subdirectory; it is located inside another directory.

Bash Special Characters

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• Definition:

• Characters that perform specific functions in Bash.

• Examples:

- . (current directory)
- . . (parent directory)
- ~ (home directory)
- / (root directory)

Environment Variables

- Definition:
 - Store values of the user's environment, used in shell commands.
- Examples:
 - \$HOME User's home directory
 - \$USER Current username

User-Defined Variables

- Definition:
 - Variables created by the user to store data.
- Example:
 - filename="report.txt"

Why Use \$ with Variables

- Definition:
 - \$ is used to access the value stored in a variable in Bash scripting.
- Example:
 - echo \$HOME displays the home directory path.