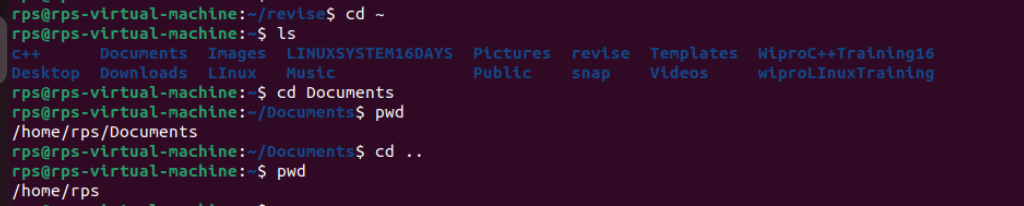
**Assignment Day2 LSP**

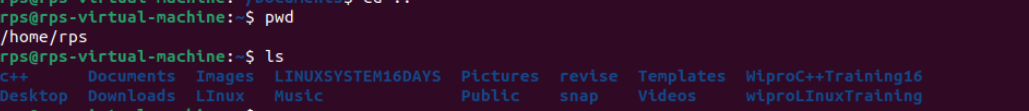
cd (change directory): Moves you between directories.

**Exercise: Navigate to your home directory (cd ~), then explore subdirectories like Documents (cd Documents). Use pwd (print working directory) to confirm your location. Try going back to a directory with cd ...  
pwd (print working directory): Shows your current directory path.**



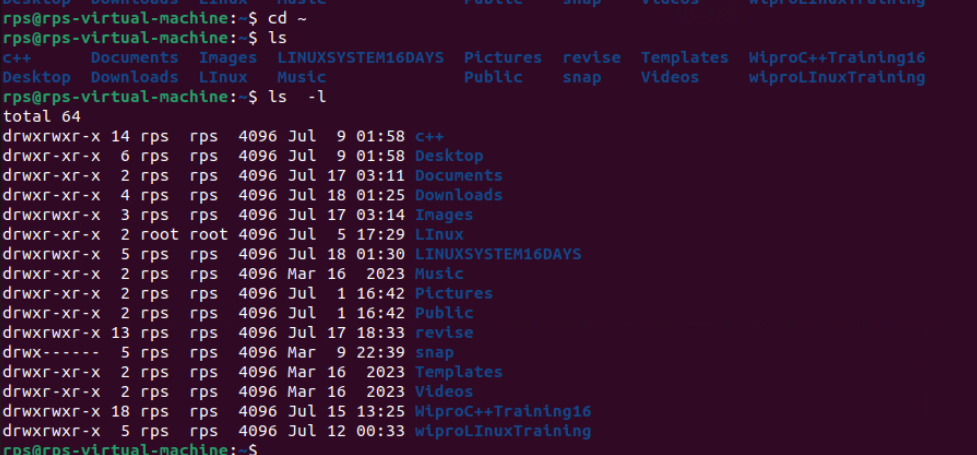
**Exercise: After navigating using cd, use pwd to verify the path.**

**ls (list): Lists files and directories in the current directory.**

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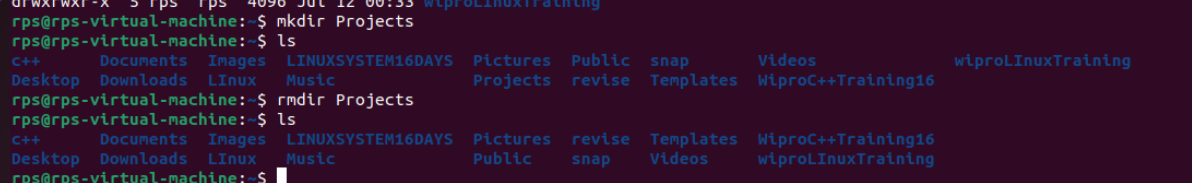
**Exercise: Use ls in your home directory and note the listed items. Try ls -l (long format) for detailed information like permissions, owner, and size.**

**File and Directory Management:**

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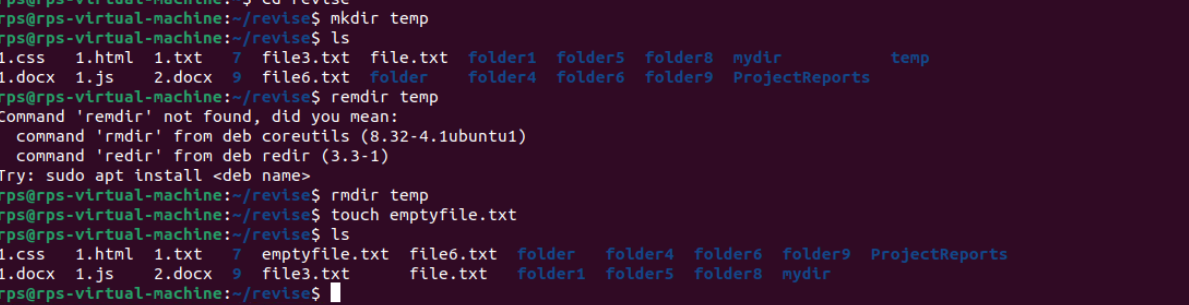
**mkdir (make directory): Creates a new directory.**

**Exercise: Create a new directory called "Projects" (mkdir Projects). Use ls to confirm its existence.  
rmdir (remove directory): Deletes an empty directory.**

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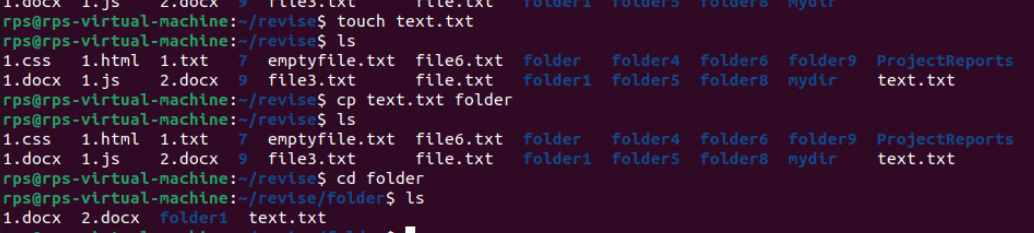
**Exercise: Make a directory named "temp" (mkdir temp). Delete it after verifying its existence with ls (rmdir temp).**

**touch (create file): Creates an empty file.**

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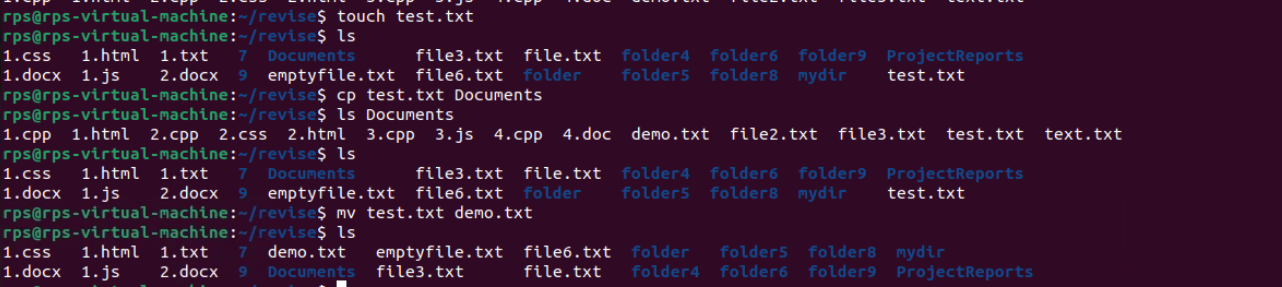
**Exercise: Create a file called "test.txt" (touch test.txt). Use ls to see it listed.**

**cp (copy): Copies a file or directory to another location.**

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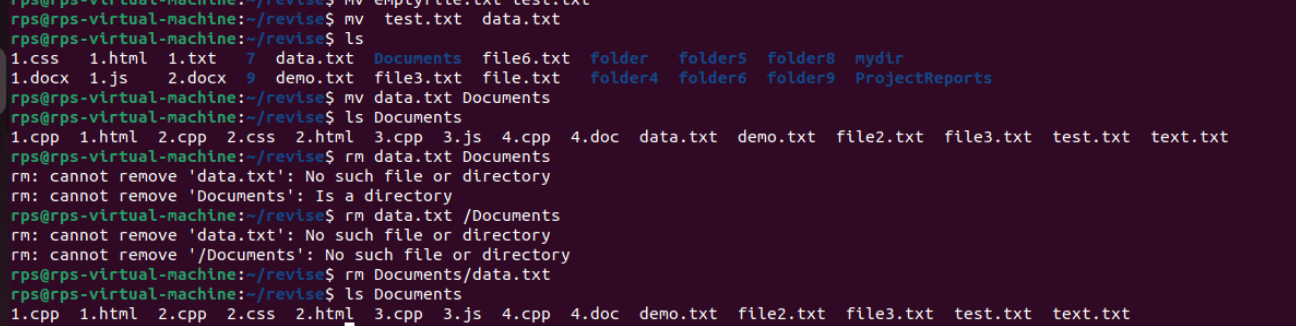
**Exercise: Copy "test.txt" to your Documents directory (cp test.txt Documents). Verify the copy with ls Documents.**

**mv (move/rename): Moves or renames a file or directory**

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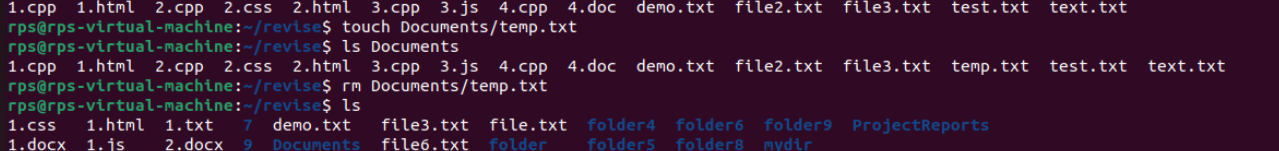
**Exercise: Rename "test.txt" to "data.txt" (mv test.txt data.txt). Use ls to confirm the change. You can also move files to a different directory (e.g., mv data.txt Documents).**

**rm (remove): Deletes files or directories (use with caution!).**

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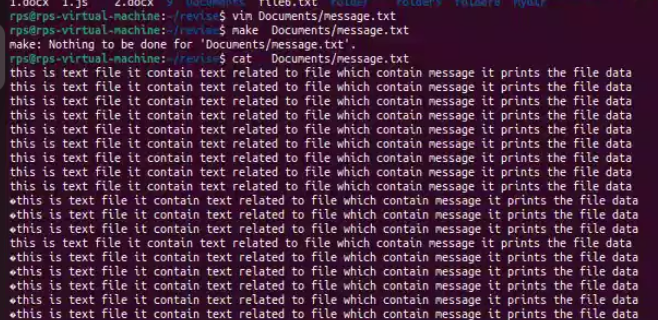
**Exercise: Important: Only use this after creating a test file (e.g., touch temp.txt). Delete "temp.txt" with rm temp.txt. Never use rm -rf without understanding the risks!**

**File Viewing and Permissions:**

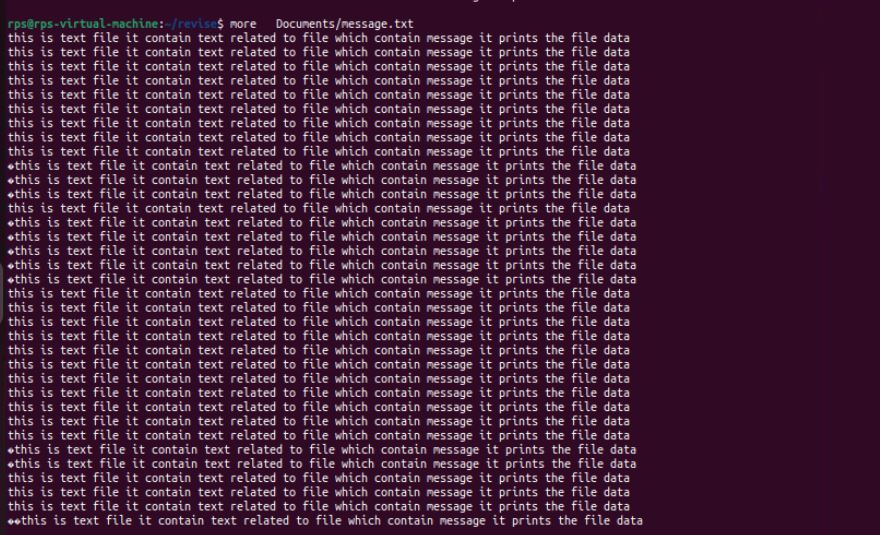
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**cat (concatenate): Displays the contents of a text file.**

**Exercise: Create a text file named "message.txt" with some content (e.g., using a text editor). Then, use cat message.txt to view its contents.  
more (pager): Displays a file's contents one screen at a time (useful for long files).**

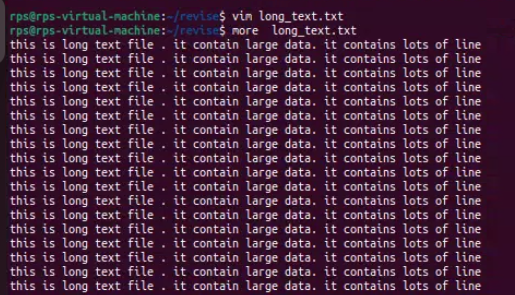
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**more - used for viewing the contents of a file one screen at a time**

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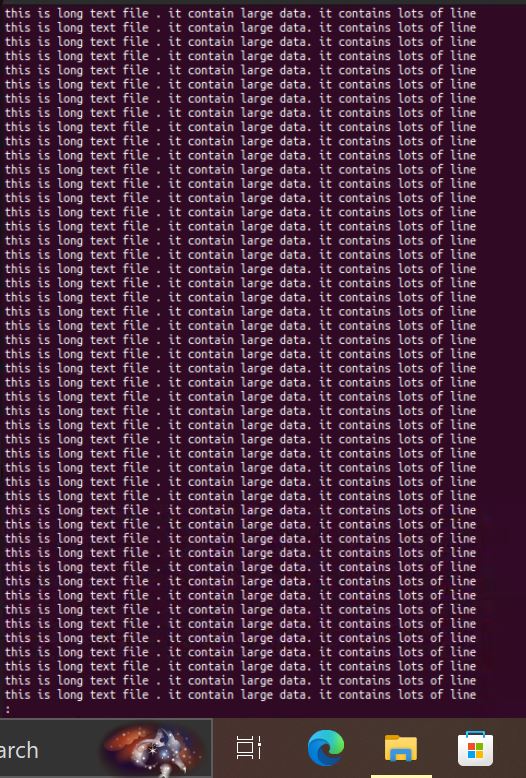
**Exercise: Create a larger text file (e.g., "long\_text.txt") and use more long\_text.txt to navigate through its content page by page.**

**less (pager): Similar to more, but allows you to move backward in the file.**

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**less (pager): Similar to more, but allows you to move backward in the file.**

**Exercise: Use less with "long\_text.txt" to try moving backward using the Up arrow key**

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**chmod (change mode): Modifies file permissions (owner, group, others) for read, write, and execute access.**

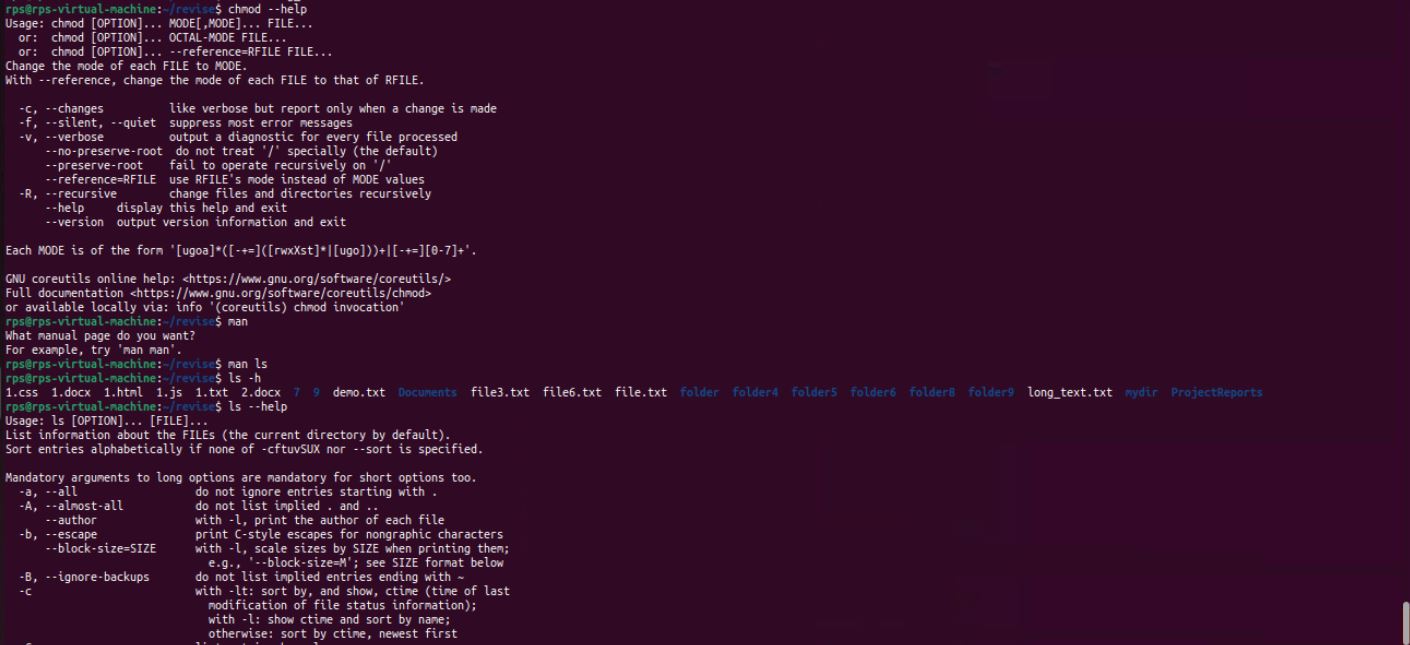
**Exercise: This requires understanding permissions. Refer to the man chmod page for details. Proceed with caution when modifying permissions.  
Getting Help and Information:**

**man (manual): Provides detailed information about a command.**

**Exercise: Use man ls or man cd to learn more about these commands.  
info (information): Another source of documentation for some commands, often more user-friendly than man.**

**Exercise: Try info ls or info cd if available on your system.  
--help or -h (help flag): Provides a brief overview of a command's usage.**

**Exercise: Use ls --help or ls -h to see the basic usage options for ls.**

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**Navigation and File Manipulation:**

**cd ~ && mkdir exercises && cd exercises: Navigate to your home directory, create a new directory named "exercises," and then move into it.**

**cp ../data.txt . (assuming "data.txt" exists in the parent directory): Copy a file named "data.txt" from the parent directory into your current "exercises" directory.**

**mv important\_file.txt important\_data.txt && touch report.md: Rename a file named "important\_file.txt" to "important\_data.txt" and create a new Markdown file named "report.md" within the "exercises" directory.**

**cat report.md (assuming the file is empty): View the contents (which should be empty) of the "report.md" file using cat.**

**echo "This is a report" >> report.md: Append a line of text "This is a report" to the "report.md" file using redirection ('>>').**

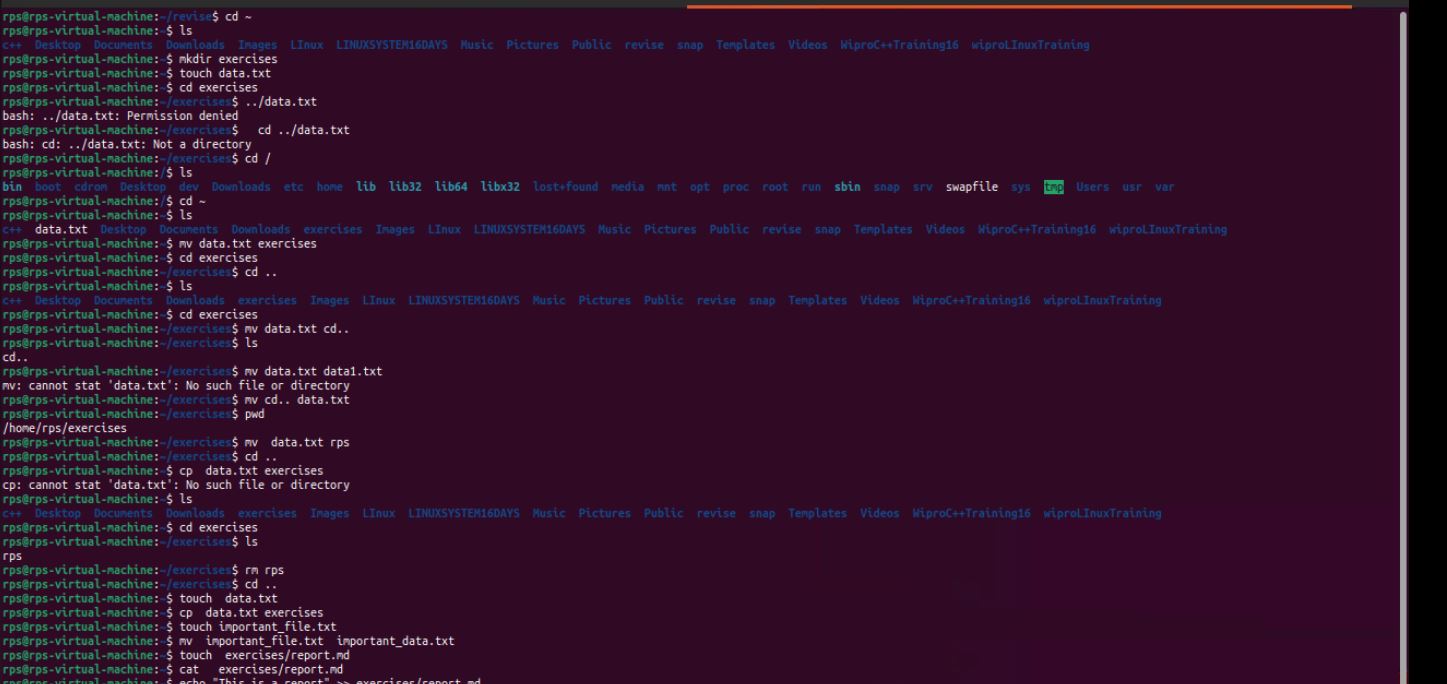
**less report.md: Use less to view the contents of the "report.md" file, which now contains the appended text**

**Finding and Organizing Files:**

**ls -l | grep 'txt$': List all files in the current directory with the long format (-l) and filter the output using grep to only show files ending with the ".txt" extension.**

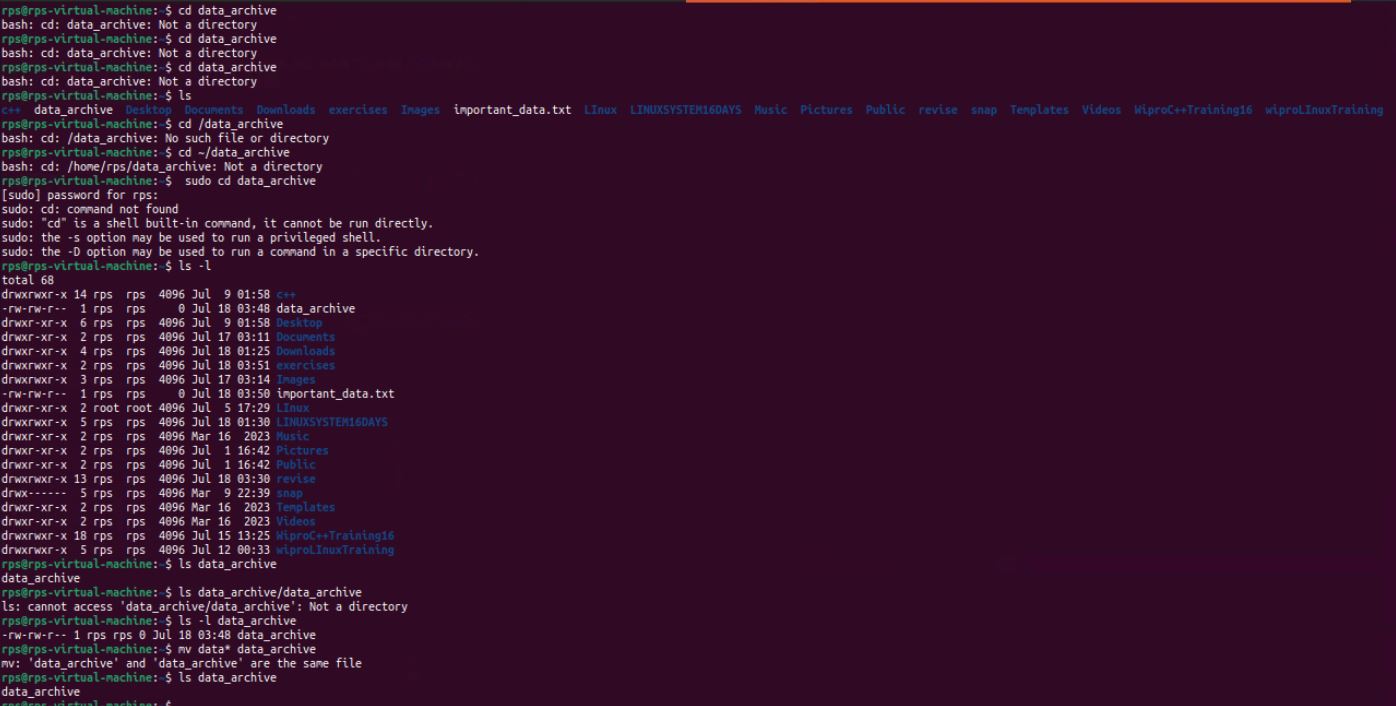
**find . -name 'data\*': Search for all files starting with "data" (including "data.txt", "data\_backup.csv", etc.) recursively within the current directory and its subdirectories using find.**

**mv data\* data\_archive/: Move all files starting with "data" into a new directory named "data\_archive" (create it if it doesn't exist)**

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