The grep command in Linux is used to search for specific patterns or strings within files or output. It stands for "Global Regular Expression Print." Here are some common uses of grep:

• Search for a String in a File:

• Example: grep "hello" filename.txt will search for the word "hello" in the file filename.txt.

• Search Recursively in Directories:

• Example: grep -r "hello" /path/to/directory will search for the word "hello" in all files within the specified directory and its subdirectories.

• Search with Case Insensitivity:

Example: grep -i "hello" filename.txt will search for "hello" in a case-insensitive manner, matching "hello", "Hello", "HELLO", etc.

• Search with Regular Expressions:

• Example: grep "^hello" filename.txt will match lines that start with "hello".

• Count the Number of Matches:

• Example: grep -c "hello" filename.txt will count the number of lines that contain the word "hello".

• Display Line Numbers with Matches:

• Example: grep -n "hello" filename.txt will show the line numbers along with the matching lines.