Problem 1: Read the instructions carefully and answer accordingly. If there is any need to insert some data then do that as well.

1. Navigate and List: a. Start by navigating to your home directory and list its contents. Then, move into a directory named "LinuxAssignment" if it exists; otherwise, create it.

A screenshot of a computer

AI-generated content may be incorrect.

1. File Management: a. Inside the "LinuxAssignment" directory, create a new file named "file1.txt". Display its contents.

A screenshot of a computer

AI-generated content may be incorrect.

1. Directory Management: a. Create a new directory named "docs" inside the "LinuxAssignment" directory.

A screenshot of a computer

AI-generated content may be incorrect.

1. Copy and Move Files: a. Copy the "file1.txt" file into the "docs" directory and rename it to "file2.txt".

A screenshot of a computer program

AI-generated content may be incorrect.

f) Final Checklist: a. Finally, list the contents of the "LinuxAssignment" directory and the root directory to ensure that all operations were performed correctly.

A screenshot of a computer program

AI-generated content may be incorrect.

g) File Searching: a. Search for all files with the extension ".txt" in the current directory and its subdirectories. b. Display lines containing a specific word in a file (provide a file name and the specific word to search).

A screenshot of a computer

AI-generated content may be incorrect.

h) System Information: a. Display the current system date and time.

A screenshot of a computer

AI-generated content may be incorrect.

i) Networking: a. Display the IP address of the system. b. Ping a remote server to check connectivity (provide a remote server address to ping).

A screenshot of a computer

AI-generated content may be incorrect.

k) File Editing: a. Open the "file1.txt" file in a text editor and add some text to it. b. Replace a specific word in the "file1.txt" file with another word (provide the original word and the word to replace it with).

A screenshot of a computer program

AI-generated content may be incorrect.

Problem 2: Read the instructions carefully and answer accordingly. If there is any need to insert some data then do that as well.

1. Suppose you have a file named "data.txt" containing important information. Display the first 10 lines of this file to quickly glance at its contents using a command.

A screenshot of a computer

AI-generated content may be incorrect.

1. Now, to check the end of the file for any recent additions, display the last 5 lines of "data.txt" using another command.

A screenshot of a computer screen

AI-generated content may be incorrect.

c. In a file named "numbers.txt," there are a series of numbers. Display the first 15 lines of this file to analyze the initial data set.

A screenshot of a computer

AI-generated content may be incorrect.

1. To focus on the last few numbers of the dataset, display the last 3 lines of "numbers.txt".

A screenshot of a computer program

AI-generated content may be incorrect.

1. Imagine you have a file named "input.txt" with text content. Use a command to translate all lowercase letters to uppercase in "input.txt" and save the modified text in a new file named "output.txt."

A computer screen shot of a program

AI-generated content may be incorrect.

1. In a file named "duplicate.txt," there are several lines of text, some of which are duplicates. Use a command to display only the unique lines from "duplicate.txt."

A screenshot of a computer

AI-generated content may be incorrect.

g. In a file named "fruit.txt," there is a list of fruits, but some fruits are repeated. Use a command to display each unique fruit along with the count of its occurrences in "fruit.txt."

A screenshot of a computer

AI-generated content may be incorrect.