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ls

### **Definition:**

Is lists files and directories in a folder.

## Usage:

By default, Is lists the contents of the current directory. You can also specify a directory or file to list.

#### Formula

bash Is [options] [directory]

## **Examples**

Is # lists files in current directory Is -I # lists files with detailed information (permissions, owner, size, date) Is /home # lists files in /home directory Is -a # lists all files including hidden files (starting with .)

Is is used for listing files and directories. By default, it lists the current directory if no directory is specified.

#### Pwd

## **Definition:**

pwd stands for "print working directory." It shows the absolute path of the current working directory.

## Usage

Use pwd to check our current location in the file system.

### Formula

pwd

## **Examples**

bash

pwd output might be: /home/username/labs to check current directory before listing its contents pwd ls

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cd

## **Definition:**

cd (change directory) is used to move between directories in the file system.

## **Usage:**

we can navigate using absolute paths (full path from root) or relative paths (from our current location).

#### Formula:

cd [path-to-directory]

## **Examples**

bash .Move to an absolute path cd /home/username/Documents .Move to a subdirectory inside the current directory cd Pictures .Move up to the parent directory cd  $\sim$ 

#### Question 2

## Variable?

A variable is a name that stores a value, such as text, numbers, or other data, which can be used later in commands or scripts.

#### How to use a variable:

To use a variable, you assign it a value and reference it using \$ before its name.

#### **Environment variable:**

An environment variable is a variable that affects the behavior of the shell or system and is available to all programs and processes started from that shell.

#### **User-defined variable:**

A user-defined variable is a variable created by the user to store information temporarily in the current session.

## Root directory:

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The root directory is the top-most directory in the Linux file system hierarchy, represented by /.

## Parent directory:

The parent directory is the directory immediately above the current directory in the file system hierarchy.

## Current working directory:

The current working directory is the directory you are presently "in" in the shell.

## Absolute path:

An absolute path is the full path from the root directory to a file or folder.

## Relative path:

A relative path specifies a file or directory relative to your current working directory.

# Difference between "Your home directory" and "The home directory":

Your home directory: The personal directory for your user account (e.g., /home/username).

The home directory: The general location where all users' home directories are stored, usually /home.