Ingé1 - Unix
LAB 2 – Absolute/Relative Paths

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The commands used in this exercise are: `touch, exit, pwd, cd, ls, echo, file, wc, bash`. Use `man` to display detailed help on a command.

Exercise 1 : Basic Commands (continued)

Q1. Display the name of the current directory.

Q2. Go to the root of the system and list its contents in detail.

Q3. List the **/dev** directory with human-readable size format.

Q4. Go to the user's home directory. Create a file with yesterday's date and the current time.

Q5. Find the largest file or directory in the **/etc** directory.

Q6. Do the files **/bin/cat**, **/bin/dd**, and **/bin/echo** exist? What is the type of each file?

Q7. Display the number of words in each file with the extension ***.conf** in the **/etc** directory.

Q8. What is the command used to close the terminal?

Q9. Open the terminal and execute the name of the currently used shell as a command. Execute the command to close the terminal. Why does the terminal remain open?

Exercise 2 : File Search

Q1. Create directories **r0**, **r1**, **r2**, and files **f0**, **f1**, **f2** in a new directory called **lab2_unix** created in the user's home directory.

Q2. Search for files in the **lab_unix** folder whose file names start with any character and the second character is 1 or 2 (use the **find** command).

Q3. Create an alias for the previous command and test the command using this alias.

Exercise 3 : Metacharacters

Q1. Create a folder called **lab2_unix** in the user's home directory and go into this directory.

Q2. Create a folder called **year**, go into this folder, and create 12 files in the **year** directory with names representing the months of the year and an extension representing the month's number (**january.1**, **february.2**, . . . **december.12**). List the created files.

Q3. Create, in a single command line, a new folder called **seasons** containing 4 sub-folders called **winter**, **spring**, **summer**, and **autumn**.

Q4. Move the months of each season to the corresponding folder using the metacharacters ***** for the month names and [] for their numbers if necessary (the move is done in <u>one command</u> for each season sub-folder). Check the results of the commands. For moving a file or directory, use the following command: **mv**.

Q5. Create, in a single command line, the folder **months** containing 3 sub-folders called **28d** (28 days), **30d** (30 days), and **31d** (31 days).

Q6. Copy the months according to their number of days, from the **seasons** directory to the **28d**, **30d**, and **31d** directories using the metacharacters ***** and []. Check the results of the commands.

Q7. List all months starting with the letter **j** in the **seasons** directory.

Q8. List all months ending with the letter **r** or the letter **e** with a month number less than 10 in the **months** directory.