4ITRC2

Operating System Lab

Lab Assignment 2

**1.pwd (Print Working Directory)**

* **Output:** Prints the current working directory.
* Example: /home/user/documents

**2.cd (Change Directory)**

* + **Output:** No output if successful; error message if the directory doesn't exist.
  + Example:bash: cd: nonexistent\_directory: No such file or directory

**3.ls (List Files and Directories)**

* + **Output:** Lists files and directories in the current directory.
  + Example: file1.txt file2.txt directory1 script.sh

**4.mkdir (Make Directory)**

* + **Output:** No output if successful; error if the directory exists.
  + Example: mkdir: cannot create directory 'test': File exists

**5.rm (Remove Files or Directories)**

* + **Output:** No output if successful; error if the file does not exist.
  + Example:rm: cannot remove 'file.txt': No such file or directory

**6.touch (Create an Empty File or Update Timestamp)**

* + **Output:** No output if successful.

**7.hostname (Displays the System’s Hostname)**

* + **Output:** Prints the system's hostname.
  + Example:my-computer

**8.cat (Concatenate and Display File Contents)**

* + **Output:** Displays the contents of a file.
  + Example:Hello, this is a test file.

**9.chmod (Change File Permissions)**

* + **Output:** No output if successful.

**10.echo (Print Text to Standard Output)**

* **Output:** Prints the provided text.
* Example:Hello, world!

**11.grep (Search for Patterns in a File)**

* **Output:** Displays lines containing the pattern.
* Example:This is a sample line containing the keyword.

**12.fgrep (Fixed-String Search, Deprecated in Favor of grep -F)**

* **Output:** Same as grep -F, searching for a fixed string.

**13.mv (Move or Rename Files)**

* **Output:** No output if successful.

**14.cp (Copy Files or Directories)**

* **Output:** No output if successful.

**15.more (View File Contents One Page at a Time)**

* **Output:** Displays file content one page at a time, allowing scrolling.

**16.less (View File Contents with More Features Than more)**

* **Output:** Displays file content with navigation options.

**17.wc (Word Count - Count Lines, Words, Characters in a File)**

* **Output:** Prints line, word, and character count.
* Example:10 50 300 file.txt

**18.awk (Pattern Scanning and Processing Language)**

* **Output:** Processes and prints text based on given patterns.
* Example:John 50000

**19.sed (Stream Editor for Filtering and Transforming Text)**

* **Output:** Modifies text as per given commands.
* Example:This is a modified line.

**20.tail (Displays Last Few Lines of a File)**

* **Output:** Prints the last 10 lines of a file by default.This is the last line of the file.