Linux Programming- Assignment 2



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**1. What does the command pwd, whoami, and hostname display?**

* **pwd** → Shows the current working directory (the folder you are in).
* **whoami** → Shows the current logged-in username.
* **hostname** → Shows the name of the computer (system name).

**2. Write the command to create a directory named “project” inside /home/student and keep three .txt files into it.**

mkdir /home/student/project

cd /home/student/project

touch file1.txt file2.txt file3.txt

This will create the folder and 3 text files inside it.

**3. Difference between absolute path and relative path with examples.**

* **Absolute path** → Full path from the root /.  
  Example: /home/student/project/file1.txt
* **Relative path** → Path from your current location.  
  Example: If you are in /home/student, writing project/file1.txt will open the file.

**4. What command shows already executed commands?**

history

This command shows all past commands you typed in the terminal.

**5. Compare find and locate. Which one is faster?**

* **find** → Searches files by checking the whole filesystem in real time (slower).
* **locate** → Uses a pre-built database of files to search (faster).  
  👉 **locate is faster** because it doesn’t scan the disk each time.

**6. Which command is used to modify file permissions in Linux? Example.**

* Command: chmod
* Example:
* chmod 755 file1.txt

This sets read, write, execute for owner; read, execute for group and others.

**7. A file has permissions -rw-r--r--. What does this mean?**

* **Owner** → Read + Write
* **Group** → Read only
* **Others** → Read only

So, only the owner can change it, others can just view it.

**8. Difference between chown and chgrp with example.**

* **chown** → Changes the **owner** of a file.  
  Example: chown user1 file.txt
* **chgrp** → Changes the **group** of a file.  
  Example: chgrp students file.txt

**9. A file needs to be accessible by many users but writable only by owner. How to set?**

Set permission like this:

chmod 644 file.txt

* Owner → Read + Write
* Group → Read
* Others → Read

**10. How do you check manual page for any Linux command?**

Use man followed by the command name.  
Example:

man ls