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| **NAME: ADITYA ABHIJIT PARULEKAR**  **DIV: S2-1**  **ROLL.NO: 2201072**   * **Experiment 3:** * **AIM: Implement Basic Commands of Linux like ls, cp, mv using Kernel APIs.** * **THEORY:**   cp → Copies the file.  cp -r → Copies recursively (directories).  cp -b → Copies the backups of the destination file in the source folder.  cp -i → Asks for confirmation before overwriting the destination file.  cp -f → Forces copying by deleting the destination file if necessary.  cp -v → Enables verbose mode, showing which files are being copied.  cp -p → Preserves file attributes such as modification time, access time, owners, and permissions.  Syntax: cp -p source\_file destination\_file.  cp -l → Creates a hard link file.  mv → Moves or renames a file.  mv -i → Asks for confirmation before moving the file.  mv -f → Forces moving by deleting the destination file if necessary.  Syntax: mv -f source\_file destination\_file.  mv -n → Prevents overwriting an existing file.  Syntax: mv -n source\_file destination\_file.  mv -b → Takes a backup of an existing file.   * **SCREENSHOTS:**                  * **CONCLUSION: Thus, we have successfully studied and implemented various basic commands of Linux like ls, cp and mv using kernel APIs.** |