

**AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH (AIUB)**

**OPERATING SYSTEM**

**FALL 2022-2023**

**Section: H Group: 08 ,**

**MID TERM REPORT**

Supervised By

**DR. RAJARSHI ROY CHOWDHURY**

**Submitted By:**

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| **NAME** | **ID** |
| MD. SHOHANUR RAHMAN SHOHAN | 22-46013-1 |
| TARIN SULTANA | 22-47045-1 |
| 1. F. M. RAFIUL HASSAN | 22-47048-1 |

| **Command** | **Explanation** | **Example** |
| --- | --- | --- |
| pwd | Display current directory | $ pwd |
| uname | Check operating system information | $ uname |
| mkdir | Create a new directory | $ mkdir MyFolder |
| cd | Navigate to a directory | $ cd MyFolder |
| ls -la | List files in the directory with detailed information | $ ls -la |
| ls -a | List all files, including hidden files | $ ls -a |
| touch | Create a new file | $ touch a.txt |
| echo | Add content to a file | $ echo Hey Linux > a.txt |
| cat | View the content of a file | $ cat a.txt |
| mkdir -p | Create a nested directory structure | $ mkdir -p Alpha/Beta/Gamma |
| uname -r | Display system kernel information | $ uname -r |
| uname -m | Display system architecture | $ uname -m |
| chmod | Change file permission | $ chmod 777 file1.txt |
| pwd >> | Redirect command output to a new file | $ pwd >> CommandOutput.txt |
| history >> | Append history to a file | $ history >> History.txt |
| cp | Copy a file | $ cp file1.txt file1\_backup.txt |
| mv | Move or rename a file | $ mv file2.txt mydir  $ mv file1.txt filemv.txt |
| rm | Delete a file | $ rm file1\_backup.txt |
| rm -d | Remove an empty directory | $ rm -d EmptyDirectory |
| rm -r | Remove a directory and all its contents | $ rm -r testdir |
| date | Display the current date and time | $ date |
| ifconfig | Display the IP configuration of the system | $ ifconfig |
| ping | Check connectivity to a website | $ ping www.google.com |
| ps | Display the list of running processes | $ ps all |
| grep | Find lines containing a specific pattern | $ grep 4 numbers.txt |
| whoami | Display the current logged-in user | $ whoami |
| sort | Sort the contents of a file | $ sort numbers.txt |
| cat -n | Display file contents with line numbers | $ cat -n combined.txt |
| mkdir && cd | Create a directory and navigate into it | $ mkdir Project && cd Project |
| head | Display the first 10 lines of a file | $ head -10 display.txt |
| tail | Display the last 10 lines of a file | $ tail -10 display.txt |
| cut | Extract sections from each line of files | $ cut -c-4 display.txt |
| paste | Merge lines of files | $ paste Name.txt Age.txt |
| ls | List and sort files | $ ls | sort |
| cat >> | Append content to a file | $ cat >> numbers.txt |
| echo >> | Append text to a file | $ echo This is a test >> data.txt |
| ls \*.txt | List files with a specific extension | $ ls \*.txt |
| mv | Move between directories | $ cd Alpha |
| touch .e.txt | Create a hidden file | $ touch .e.txt |
| echo apple, banana, cherry >> | Create a file with content | $ echo apple, banana, cherry >> data.txt |
| man | Display the manual for a command | $ man ls |
| clear | Clear terminal screen | $ clear |
| sort >> | Sort contents and save to a file | $ sort data.txt >> sorted\_data.txt |
| grep banana | Find lines containing a word | $ grep banana data.txt |
| cat sorted\_data.txt | Display sorted file contents | $ cat sorted\_data.txt |
| rm data.txt sorted\_data.txt | Delete multiple files | $ rm data.txt sorted\_data.txt |
| mkdir TestDir && cd TestDir && echo Hello >> test.txt | Create a directory, navigate into it, create a file with content | $ mkdir TestDir && cd TestDir && echo Hello >> test.txt |
| cat file1.txt file2.txt | Concatenate files | $ cat file1.txt file2.txt |
| echo "Hello World" > output.txt | Create a file with text | $ echo "Hello World" > output.txt |
| echo "Appending a new line." >> output.txt | Append text to a file | $ echo "Appending a new line." >> output.txt |
| cat output.txt | Display file contents | $ cat output.txt |
| cat output.txt file2.txt >> combined.txt | Combine files into one | $ cat output.txt file2.txt >> combined.txt |
| cat combined.txt | View combined file | $ cat combined.txt |
| cat file2.txt >> output.txt | Append file contents to another file | $ cat file2.txt >> output.txt |
| sort output.txt | Sort file contents | $ sort output.txt |
| cp output.txt file2.txt mydir/ | Copy multiple files to a directory | $ cp output.txt file2.txt mydir/ |
| rm output.txt file1.txt | Delete multiple files | $ rm output.txt file1.txt |
| mkdir -p Folder1/SubFolder | Create a directory and subdirectory | $ mkdir -p Folder1/SubFolder |
| rm -r Folder1 | Delete a directory and its contents | $ rm -r Folder1 |
| cat >> numbers.txt | Create a file with numbers | $ cat >> numbers.txt |
| sort numbers.txt | Sort numbers in a file | $ sort numbers.txt |
| grep 4 numbers.txt | Find lines with a specific number | $ grep 4 numbers.txt |
| rm numbers.txt | Delete a file | $ rm numbers.txt |
| echo Hello World > data.txt | Create a file with text | $ echo Hello World > data.txt |
| echo This is a test >> data.txt | Append text to a file | $ echo This is a test >> data.txt |
| cat data.txt | Display file contents | $ cat data.txt |
| sort data.txt >> sorted\_data.txt | Sort and save file contents | $ sort data.txt >> sorted\_data.txt |
| grep banana data.txt | Find lines with a word | $ grep banana data.txt |
| cat sorted\_data.txt | Display sorted file contents | $ cat sorted\_data.txt |
| rm data.txt sorted\_data.txt | Delete multiple files | $ rm data.txt sorted\_data.txt |
| mkdir Project && cd Project && touch README.txt | Create a directory, navigate into it, and create a file | $ mkdir Project && cd Project && touch README.txt |
| date && ls | Display date and list files | $ date && ls |
| mkdir TestDir && cd TestDir && echo Hello >> test.txt | Create a directory, navigate into it, and create a file with content | $ mkdir TestDir && cd TestDir && echo Hello >> test.txt |
| wc | Count words, line and characters in file | $ wc file1.txt |
| nl | Display number lines in a file | $ nl file1.txt |
| cat file1.txt file2.txt | Concatenate files | $ cat file1.txt file2.txt |
| head -10 display.txt | Display the first 10 lines of a file | $ head -10 display.txt |
| tail -10 display.txt | Display the last 10 lines of a file | $ tail -10 display.txt |
| cut -c-4 display.txt | Extract columns from a file | $ cut -c-4 display.txt |
| paste Name.txt Age.txt | Combine files horizontally | $ paste Name.txt Age.txt |