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| 11-23-2024 |
| In Linux every command is in lower case |
| [zafar1@linux ~]$ pwd  /home/zafar1  Print working directory |
| /home/zafar1  This is users zafar1 landing window |
| clear   * Clears the screen |
| Input   * [zafar1@linux ~]$ pwd – any command you are putting in from keyboard is input |
| Output   * /home/zafar1 * the result displayd is output * or * response from OS |
| touch   * creates a file * touch file1 * above command created **file1** |
| Ls   * ls is a list command * lists the content |
| ls -l   * ls with switch -l * this means the output will be long list   [zafar1@linux ~]$ ls -l  total 0  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 09:58 file1 |
| ls -a   * ls with switch -a * this means the output will display all files * including hidden files * hidden files start with . period   [zafar1@linux ~]$ ls -a  . .bash\_history .bash\_profile .config file1 .ssh  .. .bash\_logout .bashrc .esd\_auth .mozilla .viminfo |
| ls -al   * This is combination of two switches * -l long list * -a all files or hidden files   [zafar1@linux ~]$ ls -al  total 44  drwx------. 5 zafar1 zafar1 172 Nov 23 09:58 .  drwxr-xr-x. 80 root root 4096 Nov 23 09:27 ..  -rw-------. 1 zafar1 zafar1 9514 Aug 31 12:02 .bash\_history  -rw-r--r--. 1 zafar1 zafar1 18 Oct 1 2021 .bash\_logout  -rw-r--r--. 1 zafar1 zafar1 141 Oct 1 2021 .bash\_profile  -rw-r--r--. 1 zafar1 zafar1 376 Oct 1 2021 .bashrc  drwx------. 4 zafar1 zafar1 33 Nov 29 2022 .config  -rw-------. 1 zafar1 zafar1 16 Nov 22 2022 .esd\_auth  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 09:58 file1  drwxr-xr-x. 4 zafar1 zafar1 39 Feb 28 2021 .mozilla  drwx------. 2 zafar1 zafar1 80 Dec 7 2022 .ssh  -rw-------. 1 zafar1 zafar1 9018 Dec 1 2022 .viminfo |
| history   * Displays the history of commands for that user logged in * To run command use ! followed by number from history   946 clear  947 touch file1  948 ls  949 ls -l  950 ls -a  951 ls -al  952 clear  953 ls -l  954 clear  955 history  [zafar1@linux ~]$ |
| [zafar1@linux ~]$ !951  ls -al  total 44  drwx------. 5 zafar1 zafar1 172 Nov 23 09:58 .  drwxr-xr-x. 80 root root 4096 Nov 23 09:27 ..  -rw-------. 1 zafar1 zafar1 9514 Aug 31 12:02 .bash\_history  -rw-r--r--. 1 zafar1 zafar1 18 Oct 1 2021 .bash\_logout  -rw-r--r--. 1 zafar1 zafar1 141 Oct 1 2021 .bash\_profile  -rw-r--r--. 1 zafar1 zafar1 376 Oct 1 2021 .bashrc  drwx------. 4 zafar1 zafar1 33 Nov 29 2022 .config  -rw-------. 1 zafar1 zafar1 16 Nov 22 2022 .esd\_auth  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 09:58 file1  drwxr-xr-x. 4 zafar1 zafar1 39 Feb 28 2021 .mozilla  drwx------. 2 zafar1 zafar1 80 Dec 7 2022 .ssh  -rw-------. 1 zafar1 zafar1 9018 Dec 1 2022 .viminfo |
| history -20 |
| Up and down arrow on keyboard   * Rolling up and down will bring up commands also |
| Running multiple commands   * Use ; * Provide ; after each command * This is building block of scripting   [zafar1@linux ~]$ clear;pwd;ls -l  /home/zafar1  total 0  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 09:58 file1 |
| touch doc1 doc2 doc3   * Creates multiple files simultaneously   [zafar1@linux ~]$ touch doc1 doc2 doc3  [zafar1@linux ~]$ ls -l  total 0  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc1  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc2  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc3  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 09:58 file1 |
| [zafar1@linux ~]$ touch .file2 |
| [zafar1@linux ~]$ ls -al  total 44  drwx------. 5 zafar1 zafar1 222 Nov 23 10:35 .  drwxr-xr-x. 80 root root 4096 Nov 23 09:27 ..  -rw-------. 1 zafar1 zafar1 9514 Aug 31 12:02 .bash\_history  -rw-r--r--. 1 zafar1 zafar1 18 Oct 1 2021 .bash\_logout  -rw-r--r--. 1 zafar1 zafar1 141 Oct 1 2021 .bash\_profile  -rw-r--r--. 1 zafar1 zafar1 376 Oct 1 2021 .bashrc  drwx------. 4 zafar1 zafar1 33 Nov 29 2022 .config  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc1  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc2  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc3  -rw-------. 1 zafar1 zafar1 16 Nov 22 2022 .esd\_auth  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 09:58 file1  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:35 .file2  drwxr-xr-x. 4 zafar1 zafar1 39 Feb 28 2021 .mozilla  drwx------. 2 zafar1 zafar1 80 Dec 7 2022 .ssh  -rw-------. 1 zafar1 zafar1 9018 Dec 1 2022 .viminfo |
| mkdir   * Mkdir – crates a directory * Directory or folder same meaning   [zafar1@linux ~]$ mkdir folder1  [zafar1@linux ~]$  [zafar1@linux ~]$ ls -l  total 0  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc1  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc2  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc3  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 09:58 file1  drwxrwxr-x. 2 zafar1 zafar1 6 Nov 23 10:45 folder1 |
| mkdir folder2 folder3 folder4   * Create multiple folder/ directory at the same time   [zafar1@linux ~]$ mkdir folder2 folder3 folder4  [zafar1@linux ~]$ ls -l  total 0  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc1  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc2  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc3  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 09:58 file1  drwxrwxr-x. 2 zafar1 zafar1 6 Nov 23 10:45 folder1  drwxrwxr-x. 2 zafar1 zafar1 6 Nov 23 10:47 folder2  drwxrwxr-x. 2 zafar1 zafar1 6 Nov 23 10:47 folder3  drwxrwxr-x. 2 zafar1 zafar1 6 Nov 23 10:47 folder4 |
| mkdir .dir1   * Creates the hidden directory   [zafar1@linux ~]$ mkdir .dir1  [zafar1@linux ~]$ ls -al  total 48  drwx------. 10 zafar1 zafar1 4096 Nov 23 11:40 .  drwxr-xr-x. 80 root root 4096 Nov 23 09:27 ..  -rw-------. 1 zafar1 zafar1 9514 Aug 31 12:02 .bash\_history  -rw-r--r--. 1 zafar1 zafar1 18 Oct 1 2021 .bash\_logout  -rw-r--r--. 1 zafar1 zafar1 141 Oct 1 2021 .bash\_profile  -rw-r--r--. 1 zafar1 zafar1 376 Oct 1 2021 .bashrc  drwx------. 4 zafar1 zafar1 33 Nov 29 2022 .config  drwxrwxr-x. 2 zafar1 zafar1 6 Nov 23 11:40 .dir1  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc1  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc2  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:33 doc3  -rw-------. 1 zafar1 zafar1 16 Nov 22 2022 .esd\_auth  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 09:58 file1  -rw-rw-r--. 1 zafar1 zafar1 0 Nov 23 10:35 .file2  drwxrwxr-x. 3 zafar1 zafar1 23 Nov 23 11:13 folder1  drwxrwxr-x. 2 zafar1 zafar1 6 Nov 23 10:47 folder2  drwxrwxr-x. 2 zafar1 zafar1 6 Nov 23 10:47 folder3  drwxrwxr-x. 2 zafar1 zafar1 6 Nov 23 10:47 folder4  drwxr-xr-x. 4 zafar1 zafar1 39 Feb 28 2021 .mozilla  drwx------. 2 zafar1 zafar1 80 Dec 7 2022 .ssh  -rw-------. 1 zafar1 zafar1 9018 Dec 1 2022 .viminfo |
| Tree   * Displays the out of the existing pwd [present working directory] * In layout format   tree  .  ├── doc1  ├── doc2  ├── doc3  ├── file1  ├── folder1  ├── folder2  ├── folder3  └── folder4  4 directories, 4 files |
| cd   * Command is for changing directory   [zafar1@linux ~]$ cd folder1  [zafar1@linux folder1]$ |
| * You can now see the directory you are in using pwd   [zafar1@linux folder1]$ pwd  /home/zafar1/folder1 |
| path   * This is path of the present working directory   /home/zafar1/folder1 < --- path or address  /Illinois/gurnee/home |
| Tab key   * This will auto fill the command or name of file or folder |
| [zafar1@linux folder1]$ mkdir dirctory1  [zafar1@linux folder1]$ ls -l  total 0  drwxrwxr-x. 2 zafar1 zafar1 6 Nov 23 11:13 dirctory1  [zafar1@linux folder1]$ cd dirctory1/  [zafar1@linux dirctory1]$ pwd  /home/zafar1/folder1/dirctory1 |
| cd   * If you simply issue cd command and hit enter * You will go back to your home directory   /home/zafar1/folder1/dirctory1 < --- working directory  [zafar1@linux dirctory1]$ cd  [zafar1@linux ~]$ pwd  /home/zafar1 < --- it jumped you to your home directory |
| cd –   * This will bring you back to the previous working directory   [zafar1@linux ~]$ cd -  /home/zafar1/folder1/dirctory1 |
| cd ..   * Each time you hit cd .. * You will go up a directory or folder * This mean you are changing to parent directory   /home/zafar1/folder1/dirctory1  [zafar1@linux dirctory1]$  [zafar1@linux dirctory1]$ cd ..  [zafar1@linux folder1]$ pwd  /home/zafar1/folder1  [zafar1@linux folder1]$ cd ..  [zafar1@linux ~]$ pwd  /home/zafar1 |
| .  ..   * . single dot * This mean present working directory * .. two dots * This mean parent working directory of the directory you are in |
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| cd /folder1/dirctory1   * Here you are changing multiple directories   [zafar1@linux ~]$ tree  .  ├── doc1  ├── doc2  ├── doc3  ├── file1  ├── folder1  │   └── dirctory1  ├── folder2  ├── folder3  └── folder4  5 directories, 4 files  [zafar1@linux ~]$ pwd  /home/zafar1  [zafar1@linux ~]$ cd folder1/dirctory1/  [zafar1@linux dirctory1]$ pwd  /home/zafar1/folder1/dirctory1 |
| cd ../..   * This command will take you couple directories up   [zafar1@linux dirctory1]$ pwd  /home/zafar1/folder1/dirctory1  [zafar1@linux dirctory1]$ cd ../..  [zafar1@linux ~]$ pwd  /home/zafar1 |
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