**Ex. No: 1 (a) UNIX Commands**

**Aim** **:**  To study and execute the commands in UNIX.

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| **tscCommand** | **Syntax** | **Explanation** |
| **DATE** | $date +%a | Abbreviated Week Day |
| $date +%A | Full Week Day |
| $date +% b | Abbreviated Month |
| $date +%B | Full Month |
| $date +%c | Current Day and Time |
| $date +%C | Display the Century as a Decimal dated |
| $date +%d | Day of the Month |
| $date +%D | Day in “mm/dd/yyyy” |
| $date +%h | Abbreviated Month Day |
| $date +%H | Display the Hour |
| $date +%L | Day of the Year |
| $date +%m | Month of the Year |
| $date +%M | Minute |
| $date +%P | Display am or pm |
| $date +%p | Display AM or PM |
| $date +%S | Seconds |
| $date +%T | HH:MM:SS |
| $date +%u | Week of the Year |
| $date +%y | Display the Year in 2 Digits |
| $date +%Y | Display the Full Year |
| $date +%Z | Time Zone |
| $date “+%H-%M-%S” | To Change the Format |

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| **Command** | **Syntax** | **Explanation** |
| **CALENDAR** | $cal <year> | Entire Calendar of the Year |
| $cal <month> <year> | Particular Month of a Year |
| $cal *year* | Displays calendar for all months of the specified year |

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| **Command** | **Syntax** | **Explanation** |
| **ECHO** | $echo <text> | Echo “welcome  >You  >all” |
| $ echo $HOME | Displays the user's home directory |

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| **Command** | **Syntax** | **Explanation** |
| **BANNER** | $banner <text> | Banner WELCOME |

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| **Command** | **Syntax** | **Explanation** |
| **WHO** | $who -H  $who –b | Display the Output with Headers  Display the Last Booting Date and Time |
|  | $who | Login details of all users such as their IP, Terminal No, User name |
|  | $who am i | Used to display the login details of the user |

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| **Command** | **Syntax** | **Explanation** |
| **Tty** | $tty | Display the Terminal Name |
| **bc** | $bc | Basic calculator. Press **Ctrl+d** to quit |

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| **Command** | **Syntax** | **Explanation** |
| **CLEAR** | $clear | Clear the Screen |

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| **Command** | **Syntax** | | | **Explanation** |
| **MAN** | $man <text> | | | Help Manual |
| $man <command name> | | |
| **Command** | | **Syntax** | **Explanation** | |
| **MANIPULATION** | | $tput longname | Display the Complete Name of the Terminal | |
| $tput smso | Background – White, Foreground – Black | |
| $tput rmso | Background – Black, Foreground – White | |
| $tput cup r c | Move the Cursor Position to the Specified Location | |
| $tput cols | Display the Number of Columns in our Terminal | |

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| **Command** | **Syntax** | **Explanation** |
| **LIST** | ls –a | Used to List all the Files |
| ls –c | List all the Files Column-wise |
| ls –d | List all the Directories |
| ls –m | List the Files Separated by Commas |
| ls –p | List Files Include / to all the Directories |
| ls –r | List the Files in Reverse Alphabetical Order |
| ls –f | List the Files based on the List Modification Date |
| ls –x | List in Column-wise Sorted Order |

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| **Command** | **Syntax** | **Explanation** |
| **DIRECTORY** | $pwd | Print the Complete Path of the Current Working Directory |
| $mkdir <directory name> | To Create or Make a few Directory in a Current Directory |
| $mkdir *dir1 dir2* | A number of sub-directories can be created under one stroke |
| $rmdir | To Remove an empty Directory in the Current Directory |
|  | $cd <directory name> | To Change or Move the Directory. Change Directory. If the *subdir* starts with **/** then path starts from **root** (absolute) otherwise from current working directory. |
|  | $cd / | To switch to the root directory. |
|  | $cd.. | To move back to the parent directory |

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| **Command** | **Syntax** | **Explanation** |
| **FILE** | $cat > filename | Create a New File in the Current Directory |
| $cat filename | To Create or Make a few Directory in a Current Directory |
| $cp <Source filename> >> <Destination Filename> | To Copy the Content of One File to Another File |
| $cp –i *src des* | Warns the user prior to overwriting the destination file |
| $cp –r *src des* | Copies the entire directory, all its sub-directories and files. |
| $cat -n <filename> | Content of File with Numbers included with Blank Lines |
| $sort <filename> | Sort the Contents |
| $sort -r <filename> | Sort the Contents in Alphabetical Order in Reverse Order |
| mv <source filename> <Destination filename> | Move the Contents of One to Another |
| $mv *old new* | To rename an existing file or directory. –i option can also be used |
| $mv *f1 f2 f3 dir* | To move a group of files to a directory. |
| $mv –v *old new* | Display name of each file as it is moved. |
| $rm <filename) | Remove the File |
|  | rm \* | To delete all the files in the directory. |
|  | rm –r \* | Deletes all files and sub-directories |
|  | rm –f \* | To forcibly remove even write-protected files |

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| **Command** | **Syntax** | **Explanation** |
| **WORD** | $WC | Print the Complete Path of the Current Working Directory  c to Display Number of Characters  l to display only the lines  w to display the number of words |

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| **Command**  **FILTERS & PIPES** | **Syntax** | **Explanation** |
| $head <filename> | Display top 10 lines for the Files |
| $tail <filename> | Display last 10 lines for the File |
| $grep pattern <filename> | Search and Print the Specified Patterns of a File |