

UNIX Assignment- Day 1

Assignment UNIX

- **Concept:** Basic commands in UNIX
- **Objective:** At the end of the assignment, participants will be able to:
 - Execute Basic Linux commands

Assignment UNIX

- What are different ways of connecting to Linux/Unix server from windows client machine?
- Display system name (Linux) using Linux command.(Hint - **uname** command)
- Display kernel version using **uname** command.
- List all the files and sub directories of the /bin directory.
- Display all files and sub directories of /boot directory?
- What is **vmlinux** in /boot directory?
- List all the files including hidden files in your current directory.
- Display name of system generated log files on the console.
- List all the files starting with letter 'r' in your current directory.
- List all the files having three characters in their names, from your current directory.
- Display only the login name and IP Address of the currently logged in users name.
- Display the date in MM/DD/YY format.

- Display the calendar for past, current and next month using one command.
- Display count of user logged in.
- Write a command to print the inodes of the files.
- List all the files with extension .doc in your current directory.
- List all the files having the first letter of their name within the range 'l' to 's', from your current directory.
- Create a file text1 and read its input from keyboard.
- Copy the contents of file text1 to another file text2.
- Append the contents of file text2 to file text1.
- Count the number of files in the current directory.
- Display the output of command ls -l to a file and on the output screen.
- Find the number of users currently logged on to the system.
- Delete all the files with their names starting with "tmp".
- List only the directories in your current directory

UNIX

Assignment- Day 2

Assignment UNIX

- **Concept:** File comparison Commands, File Access Permission Commands, sort, cut, paste, command substitution
- **Objective:** At the end of the assignment, participants will be able to understand and implement:
 - Using basic **Unix** commands and filters as building blocks
 - Shell overview

Assignment UNIX

- What is the purpose of **.bash_profile** file?
- Count the total number of words and lines in file text1.
- Display the system date in following format:
 - Today is Friday, 30 Dec 16
- Display the name and count of the directories in the current directory.
- What do you mean by Unix Shell?
- Do you think Shell is not part of kernel? Provide explanation
- What is most common shell in UNIX/Linux? Provide few names
- What is the command to find all available shells in your system?
- What is command to find your current shell type?
- Display only username (login name) and their IP addresses on console.
- Display only files name and their size on the console.
- Display files name and its size having largest size in your current working directory.

UNIX

Assignment- Day 3

Assignment UNIX

- **Concept:** vi Editor and grep family
- **Objective:** At the end of the assignment, participants will be able to
 - Use vi Editor
 - Use regular expressions and grep commands

Assignment UNIX

■ Section 1

Create a file STUDENT.DAT with the below mentioned data:-

Note :

- Do NOT consider the headings as part of STUDENT.DAT file.
- The fields should be comma separated.

```
Student ID,FNAME,LNAME,BIRTH  
DATE,GENDER,MAJOR,GPA  
987,PRAVEENA,BHUTKAR,03-MAR-72,F,MGT,3.2  
763,PURVA,ARYA,05-APR-70,F,FIN,2.7  
218,RICHARDS,BENEDICT,20-MAY-73,M,ACC,2.4  
359,PALLAVI,JOSHI,20-JUN-67,F,FIN,3.6  
862,KIRAN,YADAV,07-JUL-75,M,MGT,2.2  
748,MANISH,KULKARNI,08-SEP-71,M,MGT,2.8  
506,LEE,FRANCIS,03-MAR-72,M,FIN,2.7  
581,GAURI,KANETKAR,30-MAR-72,F,MKT,3.8  
372,MAYA,GANDHI,03-APR-70,F,MKT,3.5  
126,ANIL,LAMBA,09-OCT-72,M,ACC,3.7
```

- a. Write a command to display students whose major is MGT
- b. Sort the students on GPA on Ascending Order
- c. Display the 5th, 6th and the 7th record only
- d. Write a command which will store only the FNAME and LNAME in NAMES.DAT
- e. Write a command which will store only the GPA in GPA.DAT
- f. Merge Contents of NAMES.DAT & GPA.DAT in FINAL.DAT

Assignment UNIX

■ Section 2

Create a file **project_costing.dat** with the below mentioned data-

```
idu_name;project_name;hours_worked;associate_name;extra_hour_worked;project_status
ESG;Spark;118;Ram;400;Y
ATT;Spectrum ;232;Shyam;13;N
US;Easy;565;Vishal;90;N
EUROPE;Mobile;782;Tom;92;Y
BT;Petrov;127;Steven;78;N
ESG;Billing;902;James;789;Y
ATT;Csg;232;Scott;67;N
ESG;Npp;455;Tiger;6452;Y
```

- a. Display all the lines with **project_status** marked as **Y**
- b. Display **associate_name** in descending order
- c. Display top 2 **associate_name** with highest **hours_worked**
- d. Display all the records where **project_name** starts from letters **A-**

Assignment UNIX

■ Section 3

Create a file **customer_data.dat** with the below mentioned data without headings:-

```
CELL_NUMBER,CUSTOMER_NAME,TALK_DURATION_IN_HOURS,OPERATOR
9842205567,JAMES,20,VODAFONE
9889889889,NEHA,20,DOLPHIN
9322874116,SUYASH,15,RELIANCE
8731231231,RAM,20,DOLPHIN
2222222222,BABA,210,RELIANCE
6548123423,VINITA,108,VODAFONE
8096116511,MAHESH,11,RELIANCE
1181223245,NEETU,30,DOLPHIN
```

- a. Display all the CUSTOMER_NAME where the TALK_DURATION is less than 100
- b. Sort the CUSTOMER_NAME on the basis of first 3 characters in descending order
- c. Display CUSTOMER_NAMES, whose CELL_NUMBER contain consecutive 2s.
- d. Display lines having either DOLPHIN or RELIANCE number
- e. Do not display the lines where operator is RELIANCE

Assignment UNIX

- Section 4
 - How will you check if FTP service is running or not?
 - Transfer a given file from Windows system to Linux system and vice versa
 - How will you find process-id of a process
 - How will you kill a process in Linux?

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