

Shell Script

Duration- 4 Weeks

Introduction

- Basics of computer applications
- Unix Course Introductions
- Pre-requisites
- Course Summary

Unix Commands :

Processing & Listing

- Processes and Directories
- Displaying Processes – ps
- Displaying Directories – ls
- Getting Help – man
- Simple Commands used for processing
- Using Wildcards

File Creation and Displaying

- Creating files – using > symbol
- Redirection – using >> symbol
- Redirecting Input – using < symbol
- Displaying Files – cat, more
- Piping – using | symbol
- Word Count
- Sorting a file
- Removing duplicates
- Transliteration
- Using Head and Tail command in files

Files Handling

- Creating directory
- Moving files to directories
- Copying files to directories
- Changing directory
- Removing files and directories
- Special Files – . and ..
- Creating Aliases
- Using Aliases

Cut and Paste

- Displaying selected characters – using cut
- Displaying selected fields – using delimiters
- Displaying selected files – using paste
- Using paste with delimiters

GREP and EGREP

- Displaying content of the file using GREP
- Displaying content of the file using EGREP
- EGREP Meta-character
- Back Referencing concepts

ZIP & TAR

- Zipping a file
- Unzipping a file
- Combining a set of files using TAR
- Extracting TAR file
- Using TAR with ZIP

FIND command

- Searching for a file – using find
- Finding List of files and directories
- Finding Last modified files
- Find with -exec
- Find with -xargs

Handling Jobs

- Using /dev/null
- Foreground Jobs
- Background Jobs – &
- Stopping Jobs – kill
- Changing Permissions – chmod

Shell Programming

Introduction to Shell

- Basics of Shell
- Set and Unset a variable
- Displaying – using echo
- Using Expr
- Using Test
- Getting input – using read
- Header file of shell script – using Shabang (!)
- Sample Shell script program

Command Substitution

- Assigning a command to a variable
- Storing output to a variable
- Assigning global value – using Export

Command Line Arguments

- Passing input in runtime.
- Using input inside a program

Conditional & Looping Statement

- Using if statement
- Using if –else statement
- Using Nested if statement
- Using ‘While’ Loop
- Using ‘Until’ Loop
- Using ‘For’ Loop
- Using CASE

Functions

- Creating a function
- Calling a function in file
- Calling a function in another file

Advanced Commands

- SED
- Replacing values in a file
- STTY
- TOP
- Sending an email – using MAIL
- HERE

Editors

- NANO
- PICO
- GEDIT
- Vi Editor

AWK

- Basics of AWK
- Displaying values – using awk
- Using awk in Shell script

Scheduler

- Scheduling a job – using ‘Crontab’
- Scheduling a job – using ‘at’

Advanced Shell Scripting

- Monitoring a file
- Extracting data from HTML/XML file