Shell Programming

The Shell Programming course provides students with the skills to read, write, and debug UNIX shell scripts. Learn to automate frequently executed commands and describe conditional logic, user interaction, loops, menus, traps, and functions.
This course is intended for system administrators who have mastered the basics of any flavor of the UNIX OS, such as Oracle Solaris and Oracle Linux, and would like to interpret the various boot scripts as well as create their own scripts to automate their day-to-day tasks.

Learn To:

- Create scripts to automate system administration tasks.
- Set local and environmental variables.
- Automate tasks by using regular expression characters with the grep, sed, and nawk utilities.
- Create interactive scripts by using flow control constructs.
- Perform string manipulation and integer arithmetic on shell variables.
- Debug errors in scripts.

BENEFITS TO YOU
The Shell Programming course provides you with the ability to identify various shells and automate system administration tasks through scripts. You learn to develop advanced scripts that involve using decision making algorithms, loops, variables, parameters and arguments lists.
The course also introduces you to functions that enable you to perform repetitive tasks and the various methods to debug scripts.
Finally, the course concludes by imparting some initial skills at developing useful scripts to automate system administration-related tasks.
Students are provided with the option to run the lab activities on either an Oracle Solaris or Oracle Linux environment.

1. Introduction
2. UNIX Shells
3. Shell Scripting
4. Shell Environment
5. Pattern Matching
6. The sed Editor
7. The nawk Programming Language
8. Interactive Script
9. Variables and Positional Parameters
10. Conditionals
11. Loops
12. Functions
13. Traps