Basic Shell Scripting

1. Shell Basics
   a. Types of shells
   b. Shell functionality
   c. Environment
2. Writing first script
   a. Writing script & executing basic script
   b. Debugging script
   c. Making interactive scripts
   d. Variables
   e. Mathematical expressions
3. Conditional statements
   a. If-else-elif
   b. Test commands
   c. Logical operators AND, OR, NOT
   d. Case – esac
4. Loops
   a. While
   b. For
   c. Until
   d. Break & continue
5. Command line arguments
   a. Positional parameters
   b. Set & shift
   c. String manipulation
6. Functions & file manipulation
   a. Processing file line by line
   b. Functions
7. Regular Expression Filters
   a. What is regular expression
   b. Grep, cut, sort commands
   c. Grep patterns
8. SED & AWK
9. Processes
   Concept of process in Unix
   Background processes
   Scheduling process – batch & Corn

Advanced Shell Scripting

1. Advance Scripting Techniques
   a. Providing commands options to scripts
   b. Shell and subshells
2. Oracle with Shell
   a. Connecting to Oracle using shell
   b. Running SQL queries from a shell script
   c. Extracting data from Oracle database and exporting to csv file
3. Test Framework Development
   a. Sample Framework design and demo
   b. Small project