

PERL Scripting - Course Contents

Day - 1

- ❖ Introduction to PERL
- ❖ Comments
- ❖ Reading from Standard Input
- ❖ Writing to Standard Output
- ❖ Scalar Variables – Numbers and Strings
- ❖ Use of Single Quotes and Double Quotes
- ❖ Escape Sequence and its Usage
- ❖ Use of 'chop' and 'chomp' functions

Day - 2

- ❖ Conditional Statements
- ❖ Simple IF Statements
- ❖ Simple IF ... ELSE Statements
- ❖ Multilevel IF ... ELSE Statements
- ❖ Looping Statements
- ❖ FOR Loop
- ❖ FOREACH Loop
- ❖ WHILE Loop
- ❖ DO ... WHILE Loop
- ❖ DO ... UNTIL Loop

Day - 3

- ❖ Additional Control Statements
- ❖ UNLESS Statements
- ❖ UNTIL Statements
- ❖ Loop Control Statements
- ❖ LAST statement
- ❖ NEXT statement
- ❖ REDO statement
- ❖ CONTINUE statement
- ❖ Command Line Arguments

Day - 4

- ❖ Arithmetic Operators
- ❖ Comparison Operators – Numbers and Strings
- ❖ Logical Operators

- ❖ Assignment Operators
- ❖ Concatenation Operators
- ❖ Conditional Operators
- ❖ String Repetition Operators

Day - 5

- ❖ Array Variables
- ❖ Definition
- ❖ Accessing the Elements of an Array Variable
- ❖ String Substitution
- ❖ Ranges and Expressions
- ❖ Copying Arrays
- ❖ Array within Array

Day - 6

- ❖ Arrays – Contd.,
- ❖ Size and Maximum Index of an Array
- ❖ Using Array Slices
- ❖ Reading an Array from Standard Input
- ❖ PUSH function
- ❖ POP function
- ❖ SHIFT function
- ❖ UNSHIFT function
- ❖ REVERSE function
- ❖ SORT function
- ❖ Splitting and Merging the Arrays

Day - 7

- ❖ File Handling
- ❖ Opening and Closing a File
- ❖ Different types of File Modes
- ❖ Reading the contents from file
- ❖ Use of 'die' and 'warn' statements
- ❖ Reading file to array variables
- ❖ Writing the contents to the file
- ❖ Standard error file

Day - 8

- ❖ File Handling – Contd.,
- ❖ Status of a File
- ❖ File Test Operators
- ❖ Introduction to Hash Variables
- ❖ Definition of Hash Variables
- ❖ Accessing the Hash Variables

Day - 9

- ❖ Hashes – Contd.,
- ❖ Adding the elements to the Hash Variable
- ❖ Removing the elements from the Hash Variable
- ❖ KEYS function
- ❖ VALUES function
- ❖ EACH function
- ❖ EXISTS function
- ❖ DELETE function

Day - 10

- ❖ Subroutines
- ❖ Defining and Invoking a Subroutine
- ❖ Forward Referencing
- ❖ Passing parameters to the Subroutine
- ❖ Returning a Value from Subroutine
- ❖ BEGIN predefined function
- ❖ END predefined function
- ❖ AUTOLOAD predefined function

Day - 11

- ❖ Use of 'strict' pragma
- ❖ Defining the scope of Variables – MY, OUR and LOCAL

Day - 12

- ❖ Regular Expressions
- ❖ Pattern Matching
- ❖ Binding Operator (Match Operator)
- ❖ Use of Metacharacters
- ❖ Anchors
- ❖ Alternatives

Day - 13

- ❖ Regular Expressions – Contd.,
- ❖ Character Range Escape Sequences
- ❖ Understanding \$`, \$' and \$&
- ❖ Quantifiers
- ❖ Specifying Choices
- ❖ Reusing Portions of Patterns
- ❖ Pattern Sequence Scalar Variables

Day - 14

- ❖ Regular Expressions – Contd.,
- ❖ Pattern Matching Options
- ❖ Finding the Match Location
- ❖ Substitution Operator
- ❖ Translation Operator

Day - 15

- ❖ Introduction to References
- ❖ Using the Backslash Operators
- ❖ References to Subroutines
- ❖ Special Array Indices
- ❖ Use of Default Variables – '\$_' and '@_'

Day - 16

- ❖ Concepts
- ❖ Arrays of Arrays
- ❖ Arrays of Hashes
- ❖ Hashes of Hashes
- ❖ Hashes of Arrays

Day - 17

- ❖ Understanding Packages and Libraries
- ❖ "use" and "require" functions
- ❖ %INC and @INC Variables
- ❖ Concepts of Modularity

Day - 18

- ❖ Process Management
- ❖ “system” function and interacting with the shell
- ❖ “exec” function
- ❖ %ENV hash variable
- ❖ Use of back quotes

Day - 19

- ❖ Database Access using DBI Module
- ❖ DBI Architecture
- ❖ Notations and Conventions
- ❖ Database Connection
- ❖ INSERT Operation and using BIND values
- ❖ SELECT Operation and using BIND values

Day - 20

- ❖ DBI Module – Contd.,
- ❖ UPDATE Operation and using BIND values
- ❖ DELETE statement
- ❖ Using “do” statement
- ❖ COMMIT Operation
- ❖ ROLLBACK Operation
- ❖ Automatic Error Handling
- ❖ Disconnecting Database
- ❖ Using NULL values

Day - 21

- ❖ Introduction to PERL OOPS
- ❖ Working with Objects
- ❖ Turning tasks into OO Programs
- ❖ OOPS Terminologies
- ❖ Creating own classes
- ❖ ‘REF’ Operator
- ❖ ‘BLESS’ Method
- ❖ Storing Attributes

Day - 22

- ❖ Creating Constructor
- ❖ Considering Inheritance

- ❖ Providing Attributes
- ❖ Creating Methods
- ❖ Distinguishing class and object methods
- ❖ Get-Set Methods
- ❖ Class Attributes

Day - 23

- ❖ Privatizing the Methods
- ❖ Utility Methods
- ❖ Destructor
- ❖ Complete Class
- ❖ Adding new methods
- ❖ Overriding methods

EXPERIENCE IN PERL (FEW)

- ❖ Worked in Several Projects to accomplish the following requirements:
 - 10 Years of Relevant Experience in PERL
 - Experienced in Telecom Domain
 - Data Extraction from Log Files
 - Parse the XML Files (XML Parser)
 - Load the data to Database based on several scenarios, after extracting from XML Files and Log Files
 - Regular Expression on various patterns
 - Front End Development using PERL-CGI
 - Report Generation