Perl Scripting TOC

Entry Level

The Entry Level topics are meant for freshers and beginners.

DAY 1

Introduction

Objectives:

¬ To become familiar with Perl and its history, various flavors/versions, underlying operating systems, place in Internet/Intranet, capabilities, architecture, etc.

¬ To appreciate Perl's co-existence with other programming languages/tools and technologies.
¬ To understand how Perl differs from other languages.

¬ To understand the basic Perl program structure and execution.

Data Types & Structures

Objectives:

¬ To understand what Data Types Perl supports.

¬ To understand how Perl distinguishes between Strings and Numbers.

¬ To understand Perl operations and operators.

¬ To understand Hashes and its implementation.

DAY 2

Control Structures

Objectives:

¬ To understand program flow in Perl.

¬ To understand various conditional constructs in Perl

¬ To understand looping structures.

¬ To understand Hashes and implementation.

¬ To understand Expression Modifiers.

Perl I/O

Objectives:

¬ To understand how Perl communicates with the external world.

¬ How to pass in command line arguments to a Perl program.

¬ How to supply data to a Perl program from the keyboard.

¬ How to display output from a Perl program.

¬ How to pass files containing data to a Perl program for processing.

¬ How to pass data from one Perl script to another Perl/non-Perl script or program.

¬ How to input data from another Perl script/non-Perl script or program.

Generating Formatted Output

Objectives:

¬ To learn how to generate formatted output from a Perl program.

¬ How to use a template to generate formatted output.

¬ How to generate tabular reports from databases.

DAY 3

File & Directory Handling

Objectives:

¬ To understand how Perl deals with files and directories.

¬ How to read a file's content.

¬ How to store reports and results in a file.

¬ How to read a file/directories attributes like permissions, size,etc.

¬ How to manipulate files/directories - like creating, renaming, deleting, etc.

Subroutines

Objectives:

¬ To understand how Perl deals with functions and subroutines.

¬ How to send and receive data from a subroutine.

¬ To understand recursion.

Advanced

Advanced Level topics are meant for folks who have undergone my Entry Level course. It is meant for those participants who understand the Philosophy and Basics of Perl.

DAY 4

Regular Expressions

Objectives:

¬ To understand what are Regular Expressions.

¬ How to search for a pattern in a text.

¬ How to change a text string.

¬ How to extract a tabular structure (database) from a file.

¬ How to save a tabular structure (database) to a file.

Perl DBI

Objectives:

¬ To understand what is the Perl DBI.

¬ How to interact with a database using DBI.

¬ How to interact with a database on a remote server.

¬ How to access a database on a remote server with an unsupported OS.

DAY 5

References

Objectives:

¬ To understand what are references.

¬ To learn how to use references and their data.

¬ How to use various types of references.

¬ How to detect data type of references.

Advanced

Data Structures

Objectives:

¬ To understand what are Hash of Arrays

¬ Use case and implementation

¬ To understand what are Array of Hashes

¬ Use case and implementation

Packages & Modules

Objectives:

¬ To understand what are Packages & Modules.

¬ To appreciate the difference between Traditional and OO Modules

¬ How to use external modules in Perl programs.

¬ How to create your own modules.

DAY 6

Object-Oriented Perl

Objectives:

¬ To understand what is Object Oriented Programming in Perl.

¬ To understand how Perl OOP is different from traditional OOP.

¬ How to do OOP in Perl

Debugging & Error Handling

Objectives:

¬ To understand how to debug Perl programs.

¬ To understand the various debugging tools/techniques in Perl.

¬ How to use the Dumper module.

¬ Error Handling

¬ How to use the Perl Debugger.

Conclusion