



Perl Programming

Fees : 8000 Rs Duration : 40 Days (4 days a week & 2 hours per day)

Introduction to Perl	Variables
<ul style="list-style-type: none">■ The perl compiler/interpreter■ Perl under Unix/Linux■ Writing a very simple program■ Executing a Perl program■ Basic syntax	<ul style="list-style-type: none">■ Scalars - numbers and strings■ Arrays - for storing lists■ Hashes
Programming Construct	Function Overview
<ul style="list-style-type: none">■ Simple conditional tests - if■ foreach loops■ Other loops: while, for, do, until	<ul style="list-style-type: none">■ Subroutines - Writing, using■ Scoping rules■ Special variables
Regular Expressions	Complex data structures and references
<ul style="list-style-type: none">■ Text manipulation with regular expressions■ Matching strings■ Matching the default variable■ Case-sensitivity and matching■ Special characters■ Special characters■ Built-in character classes■ Substitution■ Global substitutions■ Quoting mechanisms - qq (), etc.■ Uppercase/lowercase conversion■ Splitting strings into lists■ Joining, lists in to string	<ul style="list-style-type: none">■ Nesting arrays■ Array references■ Anonymous arrays■ Named array references■ Passing multiple arrays to/from functions■ Hashes of arrays■ Hash references■ Arrays of hashes■ Hashes of hashes
File Processing with Perl	Perl Modules
<ul style="list-style-type: none">■ Filehandles■ Reading and writing to files■ File test functions■ Subroutine prototypes	<ul style="list-style-type: none">■ Packages & files■ Creating a module■ Defining functions in modules■ Exporting functions from modules■ Variables in modules■ CreatingModules■ When you should create a module■ Finding modules■ Installing Modules

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Handling Databases with Perl	Object Oriented Programming
<ul style="list-style-type: none">■ Interacting with SQL databases from Perl■ Using DBI■ Connection/disconnection, log in/log out■ Retrieving a single record■ Retrieving multiple records■ Update/insert queries	<ul style="list-style-type: none">■ Object-Oriented Vocabulary■ The Class Definition■ Defining and Using Objects■ Instance Methods■ Class Methods■ Inheritance■ Polymorphism

Tied Variables	Perl Security Issues
<ul style="list-style-type: none">■ Why Use tie?■ Tying a Scalar■ Inside Tied Variables■ untie■ Another Tied Scalar Example■ Tying an Array■ A Tied Array Example■ Tying Hashes■ Tie::Hash and Tie::Array	<ul style="list-style-type: none">■ Coding for security■ Dangerous environment variables■ File input■ Set-user-id Perl programs■ Permissions and users■ Managing Users and Processes with Perl■ User identity across platforms

Perl Security Issues	The Perl debugger and debugging Perl
<ul style="list-style-type: none">■ Coding for security■ Dangerous environment variables■ File input■ Set-user-id Perl programs■ Permissions and users■ Managing Users and Processes with Perl■ User identity across platforms	<ul style="list-style-type: none">■ Avoiding bugs■ Perl's built-in debugger■ Invoking the debugger■ What you can do with the debugger■ Understanding the debugger's command line interface■ Knowing the debugger's basic command set■ Exploring some extended functions■ Graphical debuggers■ Alternative debugging techniques■ Process control■ Exception-handling: trapping run-time errors■ Network Programming using Perl - Introduction■ Benchmarking code■ Introduction to CGI Programming With Perl■ Perl Style