

# Introduction to Perl Programming

## Introduction to Perl

- Introduction
- Getting and Installing Perl
- Writing a simple Perl program
- Running Perl programs
- The difference between interpretive and compiled programming languages

## Working with Scalar Data

- Introduction
- Working with Scalar Data
- Working with strings
- Working with numbers
- Working with variables
- Getting user input
- The chomp operator
- Decision-making with if statements
- Looping with while statements

## Working with Arrays and Lists

- Introduction
- Creating arrays
- Accessing arrays via indices
- Creating lists
- Performing assignment with lists
- Converting arrays into strings
- Using the foreach loop on arrays and lists
- Understanding scalar and list context
- Understanding <STDIN> in scalar context

## Working with Subroutines

- Introduction
- Subroutine definitions
- Calling subroutines
- Working with subroutine return values

- Subroutine arguments
- Using variable-length parameter lists
- Using the return operator
- Private variables in subroutines

## **Perl Input and Output**

- Introduction
- Receiving input from standard input
- Working with input from the diamond operator
- Sending output to standard output
- Using printf to format output
- Working with filehandles
- Handling fatal errors with die

## **Hashes**

- Introduction
- Hashes defined and demonstrated
- Accessing hash elements
- Working with hash functions

## **Working with Regular Expressions**

- Introduction
- Regular expressions defined
- Working with simple patterns
- Working with character classes
- Matching using m//
- Working with match modifiers
- Working with the binding operator
- Working with match variables
- Matching in list context
- Performing substitutions using s///
- Working with the split function
- Working with the join function