

PRL2 - Version: 1  
15 September 2021

# Adv. Perl Programming and TK intro



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 **3 days Course**

## Description:

This course gives a deeper understanding to the Perl programming language and its advanced features. In addition, Perl's GUI Tool Kit (TK) will be introduced.

## Intended audience:

The course is meant for users, administrators and programmers who want to enhance their Perl programming skills.

## Prerequisites:

A basic Perl knowledge is required

## Objectives:

Upon completion of this course the student will be able to use advance features of the Perl language

## Topics:

### Reading from and Writing to Files

- What Is a Filehandle?
- Opening and Closing a Filehandle
- A Slight Diversion: die
- Using Filehandles
- File Tests and Their Meanings
- Manipulating the File pointer

## Basic Data Type – Reminder

- Scalar Type
- Array Type
- Hash Type
- Variable Scoping- local, my, our, use

## Basic regular expressions

- Concepts About Regular Expressions
- Simple Uses of Regular Expressions
- substitute operator
- Single-Character Patterns
- Multipliers
- General multiplier
- Alternation
- The =~ Operator

## Adv. regular expressions

- Classes
- extended constructs
- Variables
- Reg. exp functions

## References

- Making References
- Basic Usage of references
- Nested Structures
- Hash Reference

## Adv. Text Manipulation

- map

- grep
- pack / unpack
- format

## Perl modules

- Packages
- Symbol Tables
- BEGIN, CHECK, INIT and END
- Perl Modules

## Perl OO

- Creating a Class- Object Representation, Class Interface, Constructors and Instance Methods, Constructors, Destructors, Other Object Methods
- Class Data- Accessing Class Data, Debugging Methods, Class Destructors, Documenting the Interface
- Aggregation
- Inheritance- Overridden Methods, Multiple Inheritance

## Perl\_Tk Overview

- Introduction to the Perl/Tk Package
- Widgets
- Widget Methods
- The configure method
- Callbacks
- Scrollbars
- The Scrollbar widget
- Geometry Managers
- The pack Geometry Manager
- The grid Geometry Manager
- The Place Geometry Manager
- The Button Widget
- The Checkbutton Widget
- The Radiobutton Widget

- The Label Widget
- The Entry Widget
- The Listbox Widget