

PERL SCRIPT SYLLABUS

Hi Folks,

Oranium Tech introducing some amazing content on Perl Script. Perl is a family of script programming languages that is similar in syntax to the C language. It is an older, open source, general use, interpreted language. Perl was developed with usability in mind. Its efficient design lets developers do a lot with a little bit of code.

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

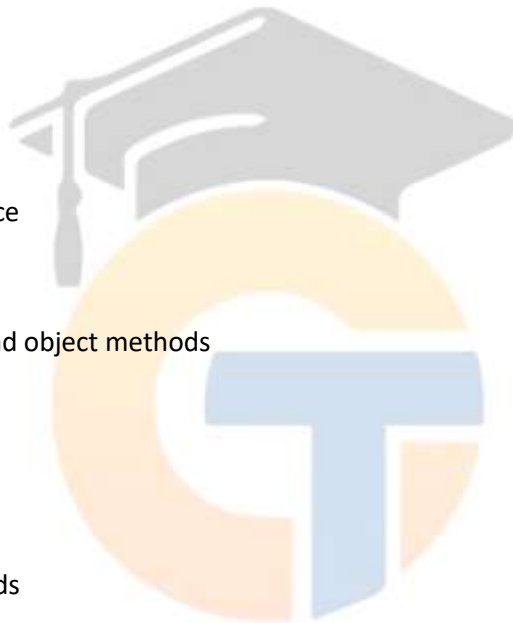
- Creating Constructor
- Considering Inheritance
- Providing Attributes
- Creating Methods
- Distinguishing class and object methods
- Get-Set Methods
- Class Attributes

Day - 23

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

Files and Log Files

- Regular Expression on various patterns
- Front End Development using PERL-CGI
- Report Generation



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