Perl

Lab Manual

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Lab Instructions

1. The recommended editor is vi or gvim editor.
2. The lab exercises are designed to make you understand how to write basic PERL scripts.
3. There are 5 labs and each lab has the following files:

   lab_template/ - contains a perl template

   lab_exercise/ - contains a perl exercise

   read_me.txt/ - contains instructions on how to create a perl script & execute the same.
4. For any technical support to do the lab exercises, please reach out to us on tech_support@maven-silicon.com

Lab - 1: How to print a string

Objective : *Understand how to print a string.*

Working Directory : Perl_labs/lab1
Source Code : lab1_template.pl, lab1_exercise
Instructions : The following instructions have been included in the source code as comments. Refer to the comments in the source code and edit the source code.

- ✓ In the template, print the string "Hello World" ....
- ✓ In the exercise, read the instruction and create a new perl script as per the read_me.txt file.

Execution Process :

- ✓ Go to the directory: **cd lab1**
- ✓ Run the command from terminal: **perl** file_name.pl

Learning outcomes :
How to print a string.

Lab - 2: How to calculate the circumference of a circle

Objective : *Understand how to use operators in Perl.*

Working Directory : Perl_labs/lab2

Source Code : lab2_template.pl, lab2_exercise

Instructions : The following instructions have been included in the source code as comments. Refer to the comments in the source code and edit the source code.

- ✓ In the template, understand how to calculate the circumference of a circle using the arithmetical operators.
- ✓ In the exercise, read the instruction and create a new perl script as per the read_me.txt file.

Execution Process :

- ✓ Go to the directory: **cd lab2**
- ✓ Run the command from terminal: **perl** file_name.pl

Learning outcomes :

How to use operators in perl to calculate the circumference of a circle.

Lab - 3: How to take user's input from the command line

Objective : *Understand how to take user's input and calculate the product of two numbers.*

Working Directory : Perl_labs/lab3

Source Code : lab3_template.pl, lab3_exercise

Instructions : The following instructions have been included in the source code as comments. Refer to the comments in the source code and edit the source code.

- ✓ In the template, understand how to take user's input from keyboard using <STDIN>.
- ✓ Then print the result.
- ✓ In the exercise, read the instruction and create a new perl script as per the read_me.txt file.

Execution Process :

- ✓ Go to the directory: **cd lab3**
- ✓ Run the command from terminal: **perl** file_name.pl

Learning outcomes :

How to take user's input from keyboard and calculate the product of two numbers.

Lab - 4: How to reverse the elements of an array

Objective : *Understand how to take user's input for an array and print the elements in a reverse order.*

Working Directory : Perl_labs/lab4

Source Code : lab4_template.pl, lab4_exercise

Instructions : The following instructions have been included in the source code as comments. Refer to the comments in the source code and edit the source code.

- ✓ In the template, take the inputs for an array & then press ctrl+D to end user's input.
- ✓ Then reverse the elements of the source array and store to a new array.
- ✓ Then print the elements of the new array.
- ✓ In the exercise, read the instruction and create a new perl script as per the read_me.txt file.

Execution Process :

- ✓ Go to the directory: **cd lab4**
- ✓ Run the command from terminal: **perl** file_name.pl

Learning outcomes :

How to take user's input from keyboard for an array and reverse the elements.

Lab - 5: How to use sub-routines in perl

Objective : *Understand how to pass values to a sub-routine using a default array variable.*

Working Directory : Perl_labs/lab5

Source Code : lab5_template.pl, lab5_exercise

Instructions : The following instructions have been included in the source code as comments. Refer to the comments in the source code and edit the source code.

- ✓ In the template, declare a sub-routine "total" which takes values as an argument using @_ , the default array variable.
- ✓ Then each element of the array is added to find the sum of the elements of the array.
- ✓ Then print the elements of the new array.
- ✓ In the exercise, read the instruction and create a new perl script as per the read_me.txt file.

Execution Process :

- ✓ Go to the directory: **cd lab5**
- ✓ Run the command from terminal: **perl** file_name.pl

Learning outcomes :

How to use sub-routines and pass values as an argument to the sub-routine.