This course is designed to learn shell scripting. First you will be learning concepts and at last you will be writing lot of shell scripts to get confidence in you in order to write shell scripts.

1) Basic of UNIX Commands

2) Shell Programming

- When to use Shell Script
- The First Shell Script
- Shell Variables
- Shell Keywords
- Tips and Traps
- Unchanging Variables
- Wiping out Variables
- Positional Parameters
- Passing Command Line Arguments
- Displaying date in desired Format
- Arithmetic in Shell Script

3) Taking Decisions

- The if-then-fi statement
- The if-then-else-fi Statement
- The test Command
  - File test ○
    String test
- Nested if-else
- use of Logical Operators
- Case Control Structure

4) Loops is Shell Scripting

- ✓ Loops
- ✓ The While loop
- ✓ The until loop
- ✓ For loop
- ✓ nesting of loops
- ✓ break statement
- ✓ continue statement

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5) Functions in Shell Scripting
  ✓ Writing Function
  ✓ Nesting of Function
  ✓ Executing Multiple Scripting
  ✓ Use of Sed,awk

6) Shell Scripts Examples

1) Write a shell program to find out whether an input integer is even or odd?

2) Write a shell script to find out the greatest value among three input values.

3) Write a shell script to calculate the net salary of an employee in a particular month considering Various allowances (TA , DA,HRA) and deduction (INCOME TAX, Provident Fund) as:
  a) TA=15% of basic salary
  b) DA=2% of basic salary
  c) HRA=10% of basic salary
  D) Income tax=5 % of basic salary
  e) Provident fund is 10% of basic salary

4) A departmental store announces its festival schema to customer on cash payment. The Scheme is as follow:
  a) if purchase amount is less than 1000 then tax=2% and discount=10%
  b) if purchase amount is greater than 1000 then tax=5% and discount=20%

5) write a program to find out the length of an input string.

6) Write a program to find out an input year is leap year or not.

7) Write a shell script to concatenate contents of 2 files in another file.

8) Generate a table of an input integer.

9) Write Shell Script to find out factorial on an input.

10) Write a shell program to generate a series of even number from 0 to n. n is given by user. (e.g. 0,2,4,6,8,10...n)

11) Write a shell program to check whether an input number is a prime or not.

12) Write a shell program to read an integer and print its digits in reverse order.

13) Write a shell script to print the character of an input string into reverse order.

14) Write a shell program to find out the location of an input character into an input string.

15).Write a shell program to count the number of characters, words, lines and spaces in a given file.

16) Write a shell program to print Fibonacci series.

17) Write a program to remove all words that occur more than once in a list.

18) Write shell script to take backup off your all script files.

19) Write a shell script that asks for the capital of India and repeats the question until user gives the right answers. (Enter capital in lower-case).

20) Shell Program for How to connect with Oracle Database through Script.

21) Write a shell Program to swap value of two variables using 3rd variable.

22) Write a shell program to swap value of two variables without using 3rd Variable.

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