

Introduction to BASH Shell Scripting

Talk to a Teacher Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://www.sakshat.ac.in>

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Learning Objectives

► Bash shell



Learning Objectives

- ▶ Bash shell
- ▶ Bash shell script



Learning Objectives

- ▶ Bash shell
- ▶ Bash shell script
- ▶ Simple shell script and execute it



System Requirements

► Ubuntu 10.10



System Requirements

- ▶ **Ubuntu 10.10**
- ▶ **GNU bash version 4.1.10**



System Requirements

- ▶ **Ubuntu 10.10**
- ▶ **GNU bash version 4.1.10**
- ▶ **Bash version 4 or above**



Prerequisite

- ▶ **Basic knowledge of Linux Operating System**



Prerequisite

- ▶ Basic knowledge of Linux Operating System
- ▶ available at <http://spoken-tutorial.org>



Bash Shell



Bash Shell

- ▶ **Bash Shell is a Command language interpreter that executes commands**



Bash Shell

- ▶ Bash Shell is a Command language interpreter that executes commands
- ▶ Commands are read from the standard input device



Bash Shell

- ▶ Bash Shell is a Command language interpreter that executes commands
- ▶ Commands are read from the standard input device
- ▶ It can be your keyboard or from a file



Bash Shell Script



Bash Shell Script

- **Series of Bash commands written sequentially in plain text file**



Bash Shell Script

- ▶ Series of Bash commands written sequentially in plain text file
- ▶ Tells the shell to execute this text file instead of entering the commands



A Procedure to Write Scripts



A Procedure to Write Scripts

- ▶ **test a command in a terminal**
`echo "Hello World"`



A Procedure to Write Scripts

- ▶ **test a command in a terminal**
echo "Hello World"
- ▶ **It worked as expected**



A Procedure to Write Scripts

- ▶ **test a command in a terminal**
echo "Hello World"
- ▶ **It worked as expected**
- ▶ **We may want to use this command again**



A Procedure to Write Scripts

- ▶ **test a command in a terminal**
echo "Hello World"
- ▶ **It worked as expected**
- ▶ **We may want to use this command again**
- ▶ **We can put it in a file and execute**



Summary

► Bash shell



Summary

- ▶ **Bash shell**
- ▶ **Bash shell script**



Summary

- ▶ Bash shell
- ▶ Bash shell script
- ▶ Simple shell script



Summary

- ▶ Bash shell
- ▶ Bash shell script
- ▶ Simple shell script
- ▶ **Execute a script**



Assignment

- **Write shell script:** `my-name.sh`



Assignment

- ▶ **Write shell script:** `my-name.sh`
- ▶ **Print your name**



Assignment

- ▶ **Write shell script:** `my-name.sh`
- ▶ **Print your name**
- ▶ **Execute it**



About the Spoken Tutorial Project

- ▶ Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project



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Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, contact sptutemail@gmail.com



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- ▶ More information on this Mission is available at <http://spoken-tutorial.org/NMEICT-Intro>



About the contributor

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► **Ranjith & Sachin**



About the contributor

IIT Bombay

- ▶ Ranjith & Sachin
- ▶ This is Sachin signing off



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