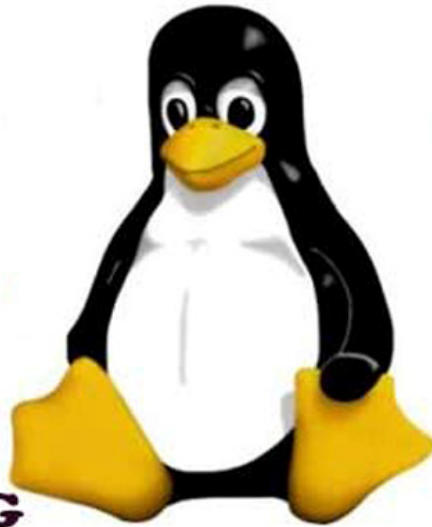




#!/bin/bash

**WITH
SHELL
SCRIPTING**



```
bhavnaaggarwal@ubuntu: ~/practice
File Edit View Search Terminal Help
even_nos1          file_7          nbgrep_#
even_nos2          file_8          nyfunc
bhavnaaggarwal@ubuntu:~/practice$ ./pattern6
bash: ./pattern6: No such file or directory
bhavnaaggarwal@ubuntu:~/practice$ ./pattern_6
```

#!/bin/bash
What is Shell
&
Shell Scriptng

BASH SHELL SCRIPT

1- Introduction to Shell

- 🚦 What is shell
- 🚦 Installation of shell
- 🚦 Shell features
- 🚦 Bash Keywords
- 🚦 Built-in Commands
- 🚦 Linux Commands
- 🚦 Specialized Navigation and History Commands
- 🚦 Shell Aliases
- 🚦 Bash Hash Table
- 🚦 The Set and Shopt Commands
- 🚦 Key binding with bind command
- 🚦 The Colon Command
- 🚦 Long and Multi-line Command

2- Script Basics

- ✚ Writing small Script
- ✚ How to execute a script
- ✚ Creating a Well-Behaved Script
- ✚ The Header
- ✚ Global Declarations
- ✚ Sanity Checks
- ✚ The Main Script
- ✚ Cleanup
- ✚ Stopping a Script

3- Variables

- ✚ Variable basics
- ✚ Predefined variables
- ✚ System variables
- ✚ Special shell variable
- ✚ Customizing shell prompt
- ✚ Variable attributes
- ✚ Arrays variable
- ✚ local variable
- ✚ Exporting variables
- ✚ Use of quotations
- ✚ Escape characters



Advance Bash Shell Scripting

- ✚ The eval command
- ✚ Reading keyboard input
- ✚ Basic redirection and pipe
- ✚ File descriptors

4- Expressions

- ✚ Basic if command
- ✚ let Features
- ✚ File test operators
- ✚ Arithmetic comparison operators
- ✚ String comparison operators
- ✚ Arithmetic comparison with double parentheses
- ✚ Parameter substitution and expansion
- ✚ Brackets and Extended brackets test construct
- ✚ Curly brackets construct
- ✚ Parentheses and double parentheses
- ✚ Regular expression
- ✚ Extended regular expression
- ✚ POSIX character classes

- ✚ Globbing options
- ✚ Here Documents
- ✚ Logical expressions

5- Compound Commands

- ✚ Command Status Codes
- ✚ if Command
- ✚ case Command
- ✚ while Loop
- ✚ until Loop
- ✚ for Loops
- ✚ Embedded let
- ✚ Grouping Commands

6- Debugging and Version Control

- ✚ Shell Debugging Features
- ✚ Shell Debugging Options
- ✚ Version Control (CVS)
- ✚ Watching Running Scripts
- ✚ Timing Execution with Time
- ✚ Creating Man Pages
- ✚ Shell Archives
- ✚ tee Command Switches
- ✚ Linux Time Command Switches
- ✚ Bash and Linux Time Command Format Codes



7- Parameters and getopt





















- ✚ Positional Parameters
- ✚ The getopt Command
- ✚ getopt internal variables
- ✚ The getopt Command

8- Job Control and Signals

- ✚ Job Control
- ✚ Signals
- ✚ The suspend Command
- ✚ Traps
- ✚ Exit Handlers
- ✚ The killall Command
- ✚ Being Nice
- ✚ Process Status







9- Text File Basics

- ✚ Working with Pathnames






-  File Truncation
-  Identifying Files
-  Creating and Deleting Files
-  Moving and Copying Files
-  More Information About Files
-  Verifying Files
-  Splitting Large Files
-  Tabs and Spaces
-  Temporary Files
-  Lock Files
-  Named Pipes
-  Process Substitution
-  Opening Files
-  Using head and tail
-  File Statistics
-  Cutting
-  Pasting
-  Columns
-  Folding
-  Joining
-  Merging









10- Text File Processing

-  Finding Lines
-  Locating Files
-  Finding Files
-  Sorting
-  Character Editing (tr)
-  Compressing Files

11- Console Scripting

-  The Linux Console
-  The Console Keyboard
-  The Console Display
-  select Menus
-  Custom Menus

12- Functions and Script Execution

-  Shell Functions
-  Local Variables
-  Recursion and Nested Functions
-  Function Attributes
-  Running Scripts
-  The Linux Execution Environment

- ✚ The Source Command (.)
- ✚ Switching Scripts with exec

13- Shell Security

- ✚ The Basic Linux Security Model
- ✚ Knowing Who You Are (id)
- ✚ Transferring Ownership (chown/chgrp)
- ✚ Changing Access Rights (chmod)
- ✚ Default Access Rights (umask)
- ✚ setuid/setgid and Scripts
- ✚ The chroot Command
- ✚ Resource Limits (ulimit)
- ✚ Restricted Shells
- ✚ Secure File Deletion

14- Network Programming

- ✚ Sockets
- ✚ Client-Server and Peer-to-Peer
- ✚ Network Clients
- ✚ CGI Scripting
- ✚ CGI Environment Variables
- ✚ Processing Forms
- ✚ Basic Web Page Stripping
- ✚ Transferring Files Between Accounts (wget)
- ✚ Transferring Files with FTP
- ✚ Transferring Files with Secure FTP (sftp)

15- Sed 'Stream Editor'

- ✚ The essential command: s for substitution
- ✚ Substitute Flags
- ✚ /g - Global replacement
- ✚ /1, /2, etc. Specifying which occurrence
- ✚ Write to a file with /w filename
- ✚ Combining substitution flags
- ✚ Arguments and invocation of sed
- ✚ Multiple commands with -e command
- ✚ sed -f scriptname
- ✚ sed in shell script
- ✚ A sed interpreter script
- ✚ Addresses and Ranges of Text
- ✚ Restricting to a line number
- ✚ Patterns
- ✚ Ranges by line number
- ✚ Ranges by patterns

- ✚ Delete with d
- ✚ Grouping with { and }
- ✚ Multi-Line Patterns

16- Awk Programming

- ✚ Getting Started
- ✚ The Structure of an A WK Program
- ✚ Running an A WK Program
- ✚ Computing and Printing
- ✚ Printing Line Numbers
- ✚ Putting Text in the Output
- ✚ Sorting the Output
- ✚ Selection by Text Content
- ✚ Combinations of Patterns
- ✚ BEGIN and END
- ✚ Computing with A WK
- ✚ Computing Sums and Averages
- ✚ String Concatenation
- ✚ Built-in Functions
- ✚ Counting Lines, Words, and Characters
- ✚ Control-Flow Statements
- ✚ Expressions as Patterns
- ✚ String-Matching, Compound and Range Patterns
- ✚ Regular Expressions
- ✚ The printf Statement
- ✚ Output into Files

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