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KEY=PROGRAMMING - DIAMOND SUSAN

Linux Shell Scripting Cookbook *Packt Publishing Ltd* This book is written in a Cookbook style and it offers learning through recipes with examples and illustrations. Each recipe contains step-by-step instructions about everything necessary to execute a particular task. The book is designed so that you can read it from start to end for beginners, or just open up any chapter and start following the recipes as a reference for advanced users. If you are a beginner or an intermediate user who wants to master the skill of quickly writing scripts to perform various tasks without reading the entire manual, this book is for you. You can start writing scripts and one-liners by simply looking at the similar recipe and its descriptions without any working knowledge of shell scripting or Linux. Intermediate/advanced users as well as system administrators/ developers and programmers can use this book as a reference when they face problems while coding. **Mastering Unix Shell Scripting** *Wiley* Provides readers with end-to-end shell scripts that can be used to automate repetitive tasks and solve real-world system administration problems Targets the specific command structure for four popular UNIX systems: Solaris, Linux, AIX, and HP-UX Illustrates dozens of example tasks, presenting the proper command syntax and analyzing the performance gain or loss using various control structure techniques Web site includes all the shell scripts used in the book **Advanced Bash Scripting Guide** *Рипол Классик* Learning the bash Shell Unix Shell Programming "O'Reilly Media, Inc." O'Reilly's bestselling book on Linux's bash shell is at it again. Now that Linux is an established player both as a server and on the desktop Learning the bash Shell has been updated and refreshed to account for all the latest changes. Indeed, this third edition serves as the most valuable guide yet to the

bash shell. As any good programmer knows, the first thing users of the Linux operating system come face to face with is the shell the UNIX term for a user interface to the system. In other words, it's what lets you communicate with the computer via the keyboard and display. Mastering the bash shell might sound fairly simple but it isn't. In truth, there are many complexities that need careful explanation, which is just what Learning the bash Shell provides. If you are new to shell programming, the book provides an excellent introduction, covering everything from the most basic to the most advanced features. And if you've been writing shell scripts for years, it offers a great way to find out what the new shell offers. Learning the bash Shell is also full of practical examples of shell commands and programs that will make everyday use of Linux that much easier. With this book, programmers will learn: How to install bash as your login shell The basics of interactive shell use, including UNIX file and directory structures, standard I/O, and background jobs Command line editing, history substitution, and key bindings How to customize your shell environment without programming The nuts and bolts of basic shell programming, flow control structures, command-line options and typed variables Process handling, from job control to processes, coroutines and subshells Debugging techniques, such as trace and verbose modes Techniques for implementing system-wide shell customization and features related to system security Sams Teach Yourself Shell Programming in 24 Hours *Sams Publishing* Learn how to develop powerful and robust shell scripts in order to get the most out of your Unix/Linux system. *Beginning Shell Scripting John Wiley & Sons* Covering all major platforms-Linux, Unix, Mac OS X, and Windows-this guide shows programmers and power users how to customize an operating system, automate commands, and simplify administration tasks using shell scripts Offers complete shell-scripting instructions, robust code examples, and full scripts for OS customization Covers shells as a user interface, basic scripting techniques, script editing and debugging, graphing data, and simplifying administrative tasks In addition to Unix and Linux scripting, the book covers the latest Windows scripting techniques and offers a complete tutorial on Mac OS X scripting, including detailed coverage of mobile file systems, legacy applications, Mac text editors, video captures, and the Mac OS X Open Scripting Architecture Pro Bash Programming, Second Edition Scripting the GNU/Linux Shell *Apress* Pro Bash Programming teaches you how to effectively utilize the Bash shell in your programming. The Bash shell is a complete programming language, not merely a glue to combine external Linux commands. By taking full advantage of Shell internals, Shell programs can perform as snappily as utilities written in C or other compiled languages. And you will see how, without assuming Unix lore, you can write professional Bash 4.3 programs through standard programming techniques. This second edition has updated for Bash 4.3, and many scripts have been rewritten to make them more idiomatically Bash, taking better advantage of features specific to Bash. It is easy to read, understand, and will teach you how to get to grips with Bash programming without drowning you in

pages and pages of syntax. Using this book you will be able to use the shell efficiently, make scripts run faster using expansion and external commands, and understand how to overcome many common mistakes that cause scripts to fail. This book is perfect for all beginning Linux and Unix system administrators who want to be in full control of their systems, and really get to grips with Bash programming. **UNIX Shell Programming** *Sams Publishing* Explains how to develop programs in the UNIX operating system, discussing how to perform tasks including building, debugging, and understanding how shell scripts work. **Shell Programming in Unix, Linux and OS X The Fourth Edition of Unix Shell Programming** *Addison-Wesley Professional* **Shell Programming in Unix, Linux and OS X** is a thoroughly updated revision of Kochan and Wood's classic **Unix Shell Programming** tutorial. Following the methodology of the original text, the book focuses on the POSIX standard shell, and teaches you how to develop programs in this useful programming environment, taking full advantage of the underlying power of Unix and Unix-like operating systems. After a quick review of Unix utilities, the book's authors take you step-by-step through the process of building shell scripts, debugging them, and understanding how they work within the shell's environment. All major features of the shell are covered, and the large number of practical examples make it easy for you to build shell scripts for your particular applications. The book also describes the major features of the Korn and Bash shells. Learn how to... Take advantage of the many utilities provided in the Unix system Write powerful shell scripts Use the shell's built-in decision-making and looping constructs Use the shell's powerful quoting mechanisms Make the most of the shell's built-in history and command editing capabilities Use regular expressions with Unix commands Take advantage of the special features of the Korn and Bash shells Identify the major differences between versions of the shell language Customize the way your Unix system responds to you Set up your shell environment Make use of functions Debug scripts Contents at a Glance 1 A Quick Review of the Basics 2 What Is the Shell? 3 Tools of the Trade 4 And Away We Go 5 Can I Quote You on That? 6 Passing Arguments 7 Decisions, Decisions 8 'Round and 'Round She Goes 9 Reading and Printing Data 10 Your Environment 11 More on Parameters 12 Loose Ends 13 Rolo Revisited 14 Interactive and Nonstandard Shell Features A Shell Summary B For More Information **Bash Guide for Beginners (Second Edition)** *Fultus Corporation* **The Bash Guide for Beginners (Second Edition)** discusses concepts useful in the daily life of the serious Bash user. While a basic knowledge of shell usage is required, it starts with a discussion of shell building blocks and common practices. Then it presents the grep, awk and sed tools that will later be used to create more interesting examples. The second half of the course is about shell constructs such as loops, conditional tests, functions and traps, and a number of ways to make interactive scripts. All chapters come with examples and exercises that will help you become familiar with the theory. **Beginning Unix** *John Wiley & Sons* Covering all aspects of the Unix operating system and assuming no prior

knowledge of Unix, this book begins with the fundamentals and works from the ground up to some of the more advanced programming techniques. The authors provide a wealth of real-world experience with the Unix operating system, delivering actual examples while showing some of the common misconceptions and errors that new users make. Special emphasis is placed on the Apple Mac OS X environment as well as Linux, Solaris, and migrating from Windows to Unix. A unique conversion section of the book details specific advice and instructions for transitioning Mac OS X, Windows, and Linux users.

Introduction to Unix and Shell Programming *Pearson Education India* Introduction to Unix and Shell Programming is designed to be an introductory first-level book for a course on Unix. Organised into twelve simple chapters, the book guides the students from the basic introduction to the Unix operating system and ext. The **Linux Command Line A Complete Introduction** *No Starch Press* You've experienced the shiny, point-and-click surface of your Linux computer—now dive below and explore its depths with the power of the command line. The Linux Command Line takes you from your very first terminal keystrokes to writing full programs in Bash, the most popular Linux shell. Along the way you'll learn the timeless skills handed down by generations of gray-bearded, mouse-shunning gurus: file navigation, environment configuration, command chaining, pattern matching with regular expressions, and more. In addition to that practical knowledge, author William Shotts reveals the philosophy behind these tools and the rich heritage that your desktop Linux machine has inherited from Unix supercomputers of yore. As you make your way through the book's short, easily-digestible chapters, you'll learn how to:

- * Create and delete files, directories, and symlinks
- * Administer your system, including networking, package installation, and process management
- * Use standard input and output, redirection, and pipelines
- * Edit files with Vi, the world's most popular text editor
- * Write shell scripts to automate common or boring tasks
- * Slice and dice text files with cut, paste, grep, patch, and sed

Once you overcome your initial "shell shock," you'll find that the command line is a natural and expressive way to communicate with your computer. Just don't be surprised if your mouse starts to gather dust. A featured resource in the Linux Foundation's "Evolution of a SysAdmin" **100 Shell Programs in Unix** *Laxmi Publications* Unix Shell Programming Unix. Possibly, The Longest Living Entity In The Computer Land Where Nothing Survives More Than A Couple Of Years, A Decade At The Most. It Has Been Around For More Than Two Decades, Owing Its Longevity To The Ruggedness Built Into It And Its Commands. This Book Comes In Two Parts. The First Part Is A Journey Into The Vast Expanse That Is Unix. The Intent Is To Make You Aware Of The Underlying Philosophy Used In Development Of Myriads Of Unix Commands Rather Than Telling You All The Variations Available With Them. **Shell Scripting Tutorial** *CreateSpace* A Bourne Shell Programming/Scripting Tutorial for learning about using the Unix shell. Learn Linux / Unix shell scripting by example along with the theory. We'll have you mastering Unix shell scripting in no time! This thorough yet practical tutorial

with examples throughout has been written with extensive feedback from literally hundreds of students and professionals in the field, both with and without a Unix or Linux background. From the author of the Wiley book "Shell Scripting - Expert Recipes for Bash, Linux and more" and of "How to Build a LAMP Server," this is his best-read and most popular work to date. **Linux Command Line and Shell Scripting Bible** *John Wiley & Sons* Advance your understanding of the Linux command line with this invaluable resource **Linux Command Line and Shell Scripting Bible, 4th Edition** is the newest installment in the indispensable series known to Linux developers all over the world. Packed with concrete strategies and practical tips, the latest edition includes brand-new content covering: **Understanding the Shell Writing Simple Script Utilities Producing Database, Web & Email Scripts Creating Fun Little Shell Scripts** Written by accomplished Linux professionals Christine Bresnahan and Richard Blum, **Linux Command Line and Shell Scripting Bible, 4th Edition** teaches readers the fundamentals and advanced topics necessary for a comprehensive understanding of shell scripting in Linux. The book is filled with real-world examples and usable scripts, helping readers navigate the challenging Linux environment with ease and convenience. The book is perfect for anyone who uses Linux at home or in the office and will quickly find a place on every Linux enthusiast's bookshelf. **Beginning Portable Shell Scripting From Novice to Professional** *Apress* Portable shell scripting is the future of modern Linux, OS X, and Unix command-line access. **Beginning Portable Shell Scripting: From Novice to Professional** teaches shell scripting by using the common core of most shells and expands those principles to all of scripting. You will learn about portable scripting and how to use the same syntax and design principles for all shells. You'll discover about the interaction between shells and other scripting languages like Ruby and Python, and everything you learn will be shown in context for Linux, OS X, bash, and AppleScript. **What you'll learn** This book will prime you on not just shell scripting, but also the modern context of portable shell scripting. You will learn **The core Linux/OS X shell constructs from a portability point of view How to write scripts that write other scripts, and how to write macros and debug them How to write and design shell script portably from the ground up How to use programmable utilities and their inherent portability to your advantage, while pinpointing potential traps Pulling everything together, how to engineer scripts that play well with Python and Ruby, and even run on embedded systems Who this book is for** This book is for system administrators, programmers, and testers working across Linux, OS X, and the Unix command line. **Table of Contents** Introduction to Shell Scripting Patterns and Regular Expressions Basic Shell Scripting Core Shell Features Explained Shells Within Shells Invocation and Execution Shell Language Portability Utility Portability Bringing It All Together Shell Script Design Mixing and Matching Mastering UNIX *John Wiley & Sons* **All Your Unix Questions—Answered!** Mastering Unix is your source for everything you need to know about today's most influential operating system. Inside, two Unix experts

provide essential information on a wide range of Unix flavors, concentrating on Linux, FreeBSD, and Solaris8. Whether you're just getting started with Unix or want a resource to help you handle system administration's toughest chores, this example-filled book will answer all your questions and promote the skills you need to succeed. Coverage includes: Using the Unix shell Using X-Windows Configuring and using remote services Connecting to the Internet Creating user accounts Creating user groups Designing and building a network Using Unix utilities Programming the shell Setting up and administering a mail server Setting up and administering a news server Setting up and administering a Web server Implementing effective security practices Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file. **Shell Scripting Expert Recipes for Linux, Bash, and more** *John Wiley & Sons* A compendium of shell scripting recipes that can immediately be used, adjusted, and applied The shell is the primary way of communicating with the Unix and Linux systems, providing a direct way to program by automating simple-to-intermediate tasks. With this book, Linux expert Steve Parker shares a collection of shell scripting recipes that can be used as is or easily modified for a variety of environments or situations. The book covers shell programming, with a focus on Linux and the Bash shell; it provides credible, real-world relevance, as well as providing the flexible tools to get started immediately. Shares a collection of helpful shell scripting recipes that can immediately be used for various of real-world challenges Features recipes for system tools, shell features, and systems administration Provides a host of plug and play recipes for to immediately apply and easily modify so the wheel doesn't have to be reinvented with each challenge faced Come out of your shell and dive into this collection of tried and tested shell scripting recipes that you can start using right away! **Expert Shell Scripting** *Apress* System administrators need libraries of solutions that are ingenious but understandable. They don't want to reinvent the wheel, but they don't want to reinvent filesystem management either! **Expert Shell Scripting** is the ultimate resource for all working Linux, Unix, and OS X system administrators who would like to have short, succinct, and powerful shell implementations of tricky system scripting tasks. Automating small to medium system management tasks Analyzing system data and editing configuration files **Scripting Linux, Unix, and OS X applications using bash, ksh, et al.** *Linux Mint Essentials* *Packt Publishing Ltd* A task-oriented look at Linux Mint, using actual real-world examples to stimulate learning. Each topic is presented in an easy-to-follow order, with hands-on activities to reinforce the content. If you are starting out with Linux from a different platform or are well versed with Linux Mint and want a guide that shows you how to exploit certain functionality, this book is for you. No previous Linux experience is assumed. **Pro Bash Programming Scripting the Linux Shell** *Apress* The bash shell is a complete programming language, not merely a glue to combine external Linux commands. By taking full advantage of shell internals, shell programs can perform as snappily as utilities written in C or other compiled languages. And you will see

how, without assuming Unix lore, you can write professional bash 4.0 programs through standard programming techniques. Complete bash coverage Teaches bash as a programming language Helps you master bash 4.0 features Linux Pocket Guide "O'Reilly Media, Inc." O'Reilly's Pocket Guides have earned a reputation as inexpensive, comprehensive, and compact guides that have the stuff but not the fluff. Every page of Linux Pocket Guide lives up to this billing. It clearly explains how to get up to speed quickly on day-to-day Linux use. Once you're up and running, Linux Pocket Guide provides an easy-to-use reference that you can keep by your keyboard for those times when you want a fast, useful answer, not hours in the man pages. Linux Pocket Guide is organized the way you use Linux: by function, not just alphabetically. It's not the 'bible of Linux; it's a practical and concise guide to the options and commands you need most. It starts with general concepts like files and directories, the shell, and X windows, and then presents detailed overviews of the most essential commands, with clear examples. You'll learn each command's purpose, usage, options, location on disk, and even the RPM package that installed it. The Linux Pocket Guide is tailored to Fedora Linux--the latest spin-off of Red Hat Linux--but most of the information applies to any Linux system. Throw in a host of valuable power user tips and a friendly and accessible style, and you'll quickly find this practical, to-the-point book a small but mighty resource for Linux users. Unix Power Tools "O'Reilly Media, Inc." By its very nature, Unix is a "power tools" environment. Even beginning Unix users quickly grasp that immense power exists in shell programming, aliases and history mechanisms, and various editing tools. Nonetheless, few users ever really master the power available to them with Unix. There is just too much to learn! Unix Power Tools, Third Edition, literally contains thousands of tips, scripts, and techniques that make using Unix easier, more effective, and even more fun. This book is organized into hundreds of short articles with plenty of references to other sections that keep you flipping from new article to new article. You'll find the book hard to put down as you uncover one interesting tip after another. With the growing popularity of Linux and the advent of Mac OS X, Unix has metamorphosed into something new and exciting. With Unix no longer perceived as a difficult operating system, more and more users are discovering its advantages for the first time. The latest edition of this best-selling favorite is loaded with advice about almost every aspect of Unix, covering all the new technologies that users need to know. In addition to vital information on Linux, Mac OS X, and BSD, Unix Power Tools, Third Edition, now offers more coverage of bcash, zsh, and new shells, along with discussions about modern utilities and applications. Several sections focus on security and Internet access, and there is a new chapter on access to Unix from Windows, addressing the heterogeneous nature of systems today. You'll also find expanded coverage of software installation and packaging, as well as basic information on Perl and Python. The book's accompanying web site provides some of the best software available to Unix users, which you can download

and add to your own set of power tools. Whether you are a newcomer or a Unix power user, you'll find yourself thumbing through the gold mine of information in this new edition of Unix Power Tools to add to your store of knowledge. Want to try something new? Check this book first, and you're sure to find a tip or trick that will prevent you from learning things the hard way. **Bash Cookbook Solutions and Examples for Bash Users** "O'Reilly Media, Inc." The key to mastering any Unix system, especially Linux and Mac OS X, is a thorough knowledge of shell scripting. Scripting is a way to harness and customize the power of any Unix system, and it's an essential skill for any Unix users, including system administrators and professional OS X developers. But beneath this simple promise lies a treacherous ocean of variations in Unix commands and standards. **bash Cookbook** teaches shell scripting the way Unix masters practice the craft. It presents a variety of recipes and tricks for all levels of shell programmers so that anyone can become a proficient user of the most common Unix shell -- the bash shell -- and cygwin or other popular Unix emulation packages. Packed full of useful scripts, along with examples that explain how to create better scripts, this new cookbook gives professionals and power users everything they need to automate routine tasks and enable them to truly manage their systems -- rather than have their systems manage them. **Unix in 24 Hours, Sams Teach Yourself Covers OS X, Linux, and Solaris** *Sams Publishing* Learn to use Unix, OS X, or Linux quickly and easily! In just 24 lessons of one hour or less, **Sams Teach Yourself Unix in 24 Hours** helps you get up and running with Unix and Unix-based operating systems such as Mac OS X and Linux. Designed for beginners with no previous experience using Unix, this book's straightforward, step-by-step approach makes it easy to learn. Each lesson clearly explains essential Unix tools and techniques from the ground up, helping you to become productive as quickly and efficiently as possible. Step-by-step instructions carefully walk you through the most common Unix tasks. Practical, hands-on examples show you how to apply what you learn. Quizzes and exercises help you test your knowledge and stretch your skills. Notes and tips point out shortcuts and solutions Learn how to... Pick the command shell that's best for you Organize the Unix file system (and why) Manage file and directory ownership and permissions Maximize your productivity with power filters and pipes Use the vi and emacs editors Create your own commands and shell scripts Connect to remote systems using SSH and SFTP Troubleshoot common problems List files and manage disk usage Get started with Unix shell programming Set up printing in a Unix environment Archive and back up files Search for information and files Use Perl as an alternative Unix programming language Set up, tweak, and make use of the GNOME graphical environment Contents at a Glance HOUR 1: What Is This Unix Stuff? HOUR 2: Getting onto the System and Using the Command Line HOUR 3: Moving About the File System HOUR 4: Listing Files and Managing Disk Usage HOUR 5: Ownership and Permissions HOUR 6: Creating, Moving, Renaming, and Deleting Files and Directories HOUR 7: Looking into Files HOUR

8: Filters, Pipes, and Wildcards! HOUR 9: Slicing and Dicing Command-Pipe Data HOUR 10: An Introduction to the vi Editor HOUR 11: Advanced vi Tricks, Tools, and Techniques HOUR 12: An Overview of the emacs Editor HOUR 13: Introduction to Command Shells HOUR 14: Advanced Shell Interaction HOUR 15: Job Control HOUR 16: Shell Programming Overview HOUR 17: Advanced Shell Programming HOUR 18: Printing in the Unix Environment HOUR 19: Archives and Backups HOUR 20: Using Email to Communicate HOUR 21: Connecting to Remote Systems Using SSH and SFTP HOUR 22: Searching for Information and Files HOUR 23: Perl Programming in Unix HOUR 24: GNOME and the GUI Environment Appendix A: Common Unix Questions and Answers

Linux and UNIX Shell Programming Addison-Wesley Professional Learn how to create and develop shell scripts in a step-by-step manner increasing your knowledge as you progress through the book. Learn how to work the shell commands so you can be more productive and save you time.

The Linux Command Line, 2nd Edition A Complete Introduction No Starch Press You've experienced the shiny, point-and-click surface of your Linux computer—now dive below and explore its depths with the power of the command line. The Linux Command Line takes you from your very first terminal keystrokes to writing full programs in Bash, the most popular Linux shell (or command line). Along the way you'll learn the timeless skills handed down by generations of experienced, mouse-shunning gurus: file navigation, environment configuration, command chaining, pattern matching with regular expressions, and more. In addition to that practical knowledge, author William Shotts reveals the philosophy behind these tools and the rich heritage that your desktop Linux machine has inherited from Unix supercomputers of yore. As you make your way through the book's short, easily-digestible chapters, you'll learn how to: Create and delete files, directories, and symlinks Administer your system, including networking, package installation, and process management Use standard input and output, redirection, and pipelines Edit files with Vi, the world's most popular text editor Write shell scripts to automate common or boring tasks Slice and dice text files with cut, paste, grep, patch, and sed Once you overcome your initial "shell shock," you'll find that the command line is a natural and expressive way to communicate with your computer. Just don't be surprised if your mouse starts to gather dust.

UNIX Shells by Example Advanced Linux Programming Sams Publishing This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. Advanced Linux Programming is divided into two parts. The first covers generic UNIX system services, but with a particular eye towards Linux specific information. This portion of the book will be of use even to advanced programmers who have worked with other Linux systems since it will cover Linux specific details and differences. For programmers without UNIX experience, it will be even more valuable. The second section covers material that is entirely Linux specific. These are truly advanced topics, and are the techniques that the gurus use to build great applications. While this book will

focus mostly on the Application Programming Interface (API) provided by the Linux kernel and the C library, a preliminary introduction to the development tools available will allow all who purchase the book to make immediate use of Linux. **Linux Shell Scripting with Bash** *Sams Publishing* The only book available that covers the powerful Bash shell and associated tools that are essential to any Linux programming professional. **Unix in a Nutshell A Desktop Quick Reference - Covers GNU/Linux, Mac OS X, and Solaris** "O'Reilly Media, Inc." As an open operating system, Unix can be improved on by anyone and everyone: individuals, companies, universities, and more. As a result, the very nature of Unix has been altered over the years by numerous extensions formulated in an assortment of versions. Today, Unix encompasses everything from Sun's Solaris to Apple's Mac OS X and more varieties of Linux than you can easily name. The latest edition of this bestselling reference brings Unix into the 21st century. It's been reworked to keep current with the broader state of Unix in today's world and highlight the strengths of this operating system in all its various flavors. Detailing all Unix commands and options, the informative guide provides generous descriptions and examples that put those commands in context. Here are some of the new features you'll find in **Unix in a Nutshell, Fourth Edition: Solaris 10**, the latest version of the SVR4-based operating system, GNU/Linux, and Mac OS X Bash shell (along with the 1988 and 1993 versions of ksh) tsch shell (instead of the original Berkeley csh) Package management programs, used for program installation on popular GNU/Linux systems, Solaris and Mac OS X GNU Emacs Version 21 Introduction to source code management systems Concurrent versions system Subversion version control system GDB debugger As Unix has progressed, certain commands that were once critical have fallen into disuse. To that end, the book has also dropped material that is no longer relevant, keeping it taut and current. If you're a Unix user or programmer, you'll recognize the value of this complete, up-to-date Unix reference. With chapter overviews, specific examples, and detailed command. **BASH Programming - Introduction HOW-TO Summary** This classic short howto will help you to start programming basic-to-intermediate shell scripts within 30 pages! **Table of Contents Introduction Very simple Scripts All about redirection Pipes Variables Conditionals Loops for, while and until Functions User interfaces Misc Tables More Scripts When something goes wrong (debugging) About the document Linux Shells by Example** *Prentice Hall Professional CD-ROM* contains: all source code and datafiles from the book. **Beginning Linux?Programming** *John Wiley & Sons* Describes the concepts of programming with Linux, covering such topics as shell programming, file structure, managing memory, using MySQL, debugging, processes and signals, and GNOME. **The UNIX Programming Environment Unix and Shell Programming** *Oxford University Press, USA* Beginning with the description of operating system in general the book discusses features that made Unix the most suitable operating system of its time. An overview of file management in Unix and commonly used Unix commands is then provided. Further, it delves into the detailed

description of file system and compression techniques, processes and signals, vi editor, system calls, and awk scripting. Detailed description about different types of editors and shell programming (including Bourne, C, and interactive Korn shell) has also been provided. Chapters dedicated to debugging and system development, language development, text formatting tools, interprocess communication, and system administration are covered in the later part of the book. To aid students, the book provides numerous examples and complete program scripts that will help in grasping the key concepts effectively. Web Resources: For StudentsDT Chapter-wise executable and complete shell scripts and codes given in the bookDT Mail Organizer - project that sends mail to a desired recipient on a given date.DT Inventory Management System - project that explains maintenance of inventory using MySQL database server DT Debugging exercises with solutions For FacultyDT Chapter-wise PPTsDT Answers to select review exercises given in the book **Learning the Bash Shell Unix Shell Programming "O'Reilly Media, Inc."** O'Reilly's bestselling book on Linux's bash shell is at it again. Now that Linux is an established player both as a server and on the desktop Learning the bash Shell has been updated and refreshed to account for all the latest changes. Indeed, this third edition serves as the most valuable guide yet to the bash shell. As any good programmer knows, the first thing users of the Linux operating system come face to face with is the shell the UNIX term for a user interface to the system. In other words, it's what lets you communicate with the computer via the keyboard and display. Mastering the bash shell might sound fairly simple but it isn't. In truth, there are many complexities that need careful explanation, which is just what Learning the bash Shell provides. If you are new to shell programming, the book provides an excellent introduction, covering everything from the most basic to the most advanced features. And if you've been writing shell scripts for years, it offers a great way to find out what the new shell offers. Learning the bash Shell is also full of practical examples of shell commands and programs that will make everyday use of Linux that much easier. With this book, programmers will learn: How to install bash as your login shell The basics of interactive shell use, including UNIX file and directory structures, standard I/O, and background jobs Command line editing, history substitution, and key bindings How to customize your shell environment without programming The nuts and bolts of basic shell programming, flow control structures, command-line options and typed variables Process handling, from job control to processes, coroutines and subshells Debugging techniques, such as trace and verbose modes Techniques for implementing system-wide shell customization and features related to system security UNIX: The Complete Reference, Second Edition *McGraw Hill Professional* The Definitive UNIX Resource--Fully Updated Get cutting-edge coverage of the newest releases of UNIX--including Solaris 10, all Linux distributions, HP-UX, AIX, and FreeBSD--from this thoroughly revised, one-stop resource for users at all experience levels. Written by UNIX experts with many years of experience starting with Bell

Laboratories, UNIX: The Complete Reference, Second Edition provides step-by-step instructions on how to use UNIX and take advantage of its powerful tools and utilities. Get up-and-running on UNIX quickly, use the command shell and desktop, and access the Internet and e-mail. You'll also learn to administer systems and networks, develop applications, and secure your UNIX environment. Up-to-date chapters on UNIX desktops, Samba, Python, Java Apache, and UNIX Web development are included. Install, configure, and maintain UNIX on your PC or workstation Work with files, directories, commands, and the UNIX shell Create and modify text files using powerful text editors Use UNIX desktops, including GNOME, CDE, and KDE, as an end user or system administrator Use and manage e-mail, TCP/IP networking, and Internet services Protect and maintain the security of your UNIX system and network Share devices, printers, and files between Windows and UNIX systems Use powerful UNIX tools, including awk, sed, and grep Develop your own shell, Python, and Perl scripts, and Java, C, and C++ programs under UNIX Set up Apache Web servers and develop browser-independent Web sites and applications