

UNIX & C Programming



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Description

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UNIX & C Programming

Unit – I: Unix Utilities: Introduction to Unix File System-File Editor-File Handling Utilities –Security By File Permissions. Process Utilities – Disk Utilities – Networking Commands? Coml, Unlink, Mkdir, Rmdir, Mount, Umount, FindUmsk, Ulimit, Who Finger, Fil, Telnet, Rlogin, Text Processing Utilities, and Backup Utilities, Cat, Fail, Head, Sort, Nl, Grep, Cgrep, Cut, Paste, Join, More, Pg, Comm, Cmp, Diff, Awk.

Unit – II: What is a Shell, Shell Responsibilities Pipes and Impact Redirection, Output Redirection. The Shell As Programming Language. Shell Variables. Condition, Control Structure and Shell Programming.

Unit – III: Unix Internals? Unix File Structure – Directories. File and Devices System Calls and Device Drivers – Library Functions - Low Level File Access (Write, Read, Open, Close, Lseek, lseek, lstat, stat). The Standard I/O (Fopen, Fread, Flush, Fseek, Fgetc, Getc, Getchar, Fputc, Putchar, Fgets, Gets). Formatted I/O Stream and File Descriptors File and Directory Maintenance (Chmod, Chown, Unlink, Symlink, Mkdir, Rmdir, Chdir).

Part B: C Programming:

Unit – I: Basic Structure of C-Language, C Tokens, Data Types, Declaration of Variables, Assigning Values. Arithmetic, Relational and Logical Operations. Increment and Decrement Operators, Control Operators, Bit-Wise Operator, Expressions, Evaluation, Input Output Operators. If and Switch Statements. While Do-While and For Statements, Programming assignments, implementation of lists, stacks, queues, and recursions. C Programs Covering All The Above Aspects.

Unit – II: One Dimensional and Two Dimensional Arrays Initialization, String Variable, Declaration, Reading, Writing, String Handling, Functions, User-Defined Functions, Variable and String Classes, Example C Programs. Extensive top-down design principles to solve non-trivial problems, dynamic storage, and classes.

Unit – III: Structure Definition, Initialization, Assigning Values, Passing of Structures as Arguments, Unions, Declaring and initializing of Pointers, Pointer Based Expressions. Arrays, Strips, Functions, Advanced array applications and Structures? C Program Examples, File Management in C, Opening and Closing I-O Operations On Files

