

BCA-2-01P: Operating Systems Lab

Total Marks: 50

External Marks: 15

Internal Marks: 35

Credits: 2

Pass Percentage: 40%

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| Course: Operating Systems Lab | |
| Course Code: BCA-2-01P | |
| Course Outcomes (COs) | |
| After the completion of this course, the students will be able to: | |
| CO1 | Demonstrate the installation process of various operating systems. |
| CO2 | Implement virtualization by installing Virtual Machine software. |
| CO3 | Apply UNIX/LINUX operating system commands. |
| CO4 | Understand different UNIX/LINUX shell scripts |
| CO5 | Implement and execute various shell programs. |

Detailed List of Programs:

| Programme No. | Name of Program |
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| P1 | Install UNIX/LINUX – Complete Step by Step |
| P2 | Study of Basic UNIX Commands and various UNIX editors such as vi, ed, ex and EMACS |
| P3 | Write a shell script that deletes all lines containing the specified word in one or more files Supplied as arguments to it. |
| P4 | Write a shell script that displays a list of all files in the current directory to which the user has read, write and execute permissions |
| P5 | Write a shell script that receives any number of file names as arguments checks if every argument supplied is a file or directory and reports accordingly. Whenever the argument is a file it reports no of lines present in it |
| P6 | Write a shell script that accepts a list of file names as its arguments, counts and reports the occurrence of each word that is present in the first argument file on other argument files. |
| P7 | Write a shell script to list all of the directory files in a directory |

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| P8 | Write a shell script to find factorial of a given number |
| P9 | Write an awk script to count number of lines in a file that does not contain vowels |
| P10 | Write an awk script to find the no of characters ,words and lines in a file |
| P11 | Implement in C language, the following Unix commands using system calls a) cat b) ls c) mv |
| P12 | Write a C program that takes one or more file/directory names as command line input and reports following information |
| P13 | Write a C program to list every file in directory, its inode number and file name |
| P14 | Write a C program to create zombie process |
| P15 | Write a C program to illustrate how an orphan process is created |
| P16 | Write client server programs using c for interaction between server and client process using Unix Domain sockets |