

## Pr.1-OPERATING SYSTEM LAB

<b>Total Periods</b>	<b>60</b>	<b>Maximum Marks</b>	<b>50 Marks</b>
<b>Lab. Periods:</b>	<b>4 Periods /week</b>	<b>Term Works</b>	<b>25 Marks</b>
<b>Examination</b>	<b>3hours</b>	<b>End Semester Examination</b>	<b>25Marks</b>

### A. LIST OF PRACTICALS:-

1. Write a Shell script to print the command line arguments in reverse order.
2. Write a Shell script to check whether the given number is palindrome or not.
3. Write a Shell script to sort the given array elements in ascending order using bubble sort.
4. Write a Shell script to perform sequential search on a given array elements.
5. Write a Shell script to perform binary search on a given array elements.
6. Write a Shell script to accept any two file names and check their file permissions.
7. Write a Shell script to read a path name, create each element in that path e.g: a/b/c i.e., 'a' is directory in the current working directory, under 'a' create 'b', under 'b' create 'c'.
8. Write a Shell script to illustrate the case-statement.
9. Write a Shell script to accept the file name as arguments and create another shell script, which recreates these files with its original contents.
10. Write a Shell script to demonstrate Terminal locking.
11. Write a Shell script to accept the valid login name, if the login name is valid then print its home directory else an appropriate message.
12. Write a Shell script to read a file name and change the existing file permissions.
13. Write a Shell script to print current month calendar and to replace the current day number by '\*' or '\*\*' respectively.
14. Write a Shell Script to display a menu consisting of options to display disk space, the current users logged in, total memory usage, etc. ( using functions.)
15. Write a C-program to fork a child process and execute the given Linux commands.
16. Write a C-program to fork a child process, print owner process ID and its parent process ID.
17. Write a C-program to prompt the user for the name of the environment variable, check its validity and print an appropriate message.
18. Write a C-program to READ details of N students such as student name, reg number, semester and age. Find the eldest of them and display his details.

### Books Recommended:-

Sl.No	Name of Authors	Title of the Book	Name of the publisher
1	Sumitabha Das, 4th Edition,	“UNIX – Concepts and Applications”,	Tata McGraw Hill, 2006.
3	Yashvant Kanetkar	Unix Shell Programming 1st edition	BPB Publication