**List of Praticals (Jan-Apr 2022)**

**Subject – Operating Systems Lab Course Code : CSL 403**

**Class – SE (Computer Engineering ) Sem : IV**

**1.** . Explore the internal commands of linux like **LO1**

1. ls 2. Mkdir 3. chdir

4. rmdir 5. Cat 6. rm

7. mv 8. Cp 9. head

10. tail 11. Sort 12. wc

13. chown 14. Chmod 15. chgrp

16. umask 17. Ps 18. pipe

19. Redirection operators

20. Explore commands for following:

a. Display top 10 processes in descending order,

b. Display the process with highest memory usage,

c. Display current user logged in and logname,

d. Display current shell, home directory, operating system type, current path setting, current working directory,

e. Display OS version, release number, kernel version.

2. **Write Shell Programs to LO1**

1. Add 2 numbers

2. Check if a number entered is even and odd

3. Find sum of n numbers

4. Determine if a person is eligible to vote or not

5. Display all filenames beginning with character ‘a’ and displays its contents

6. Find Factorial of a number

7. Check validity of a username and password with a function defined in the code

**3. Process Scheduling Algorithms LO2**

WAP to simulate Non Pre-emptive Priority Scheduling Policy

**4**. **Memory Allocation Techniques LO4**

Write programs to simulate the Best Fit Memory Allocation Technique

**5. Page Replacement Policies LO5**

WAP to simulate following LRU Page Replacement techniques

**6.** Write a program to simulate **Paging** technique **LO5**

**7.** Write a program to implement the SSTF **Disk Scheduling Policiy LO6**

**8.** Write a program to implement the following SCAN **Disk Scheduling Policy LO6**

**9**. WAP to simulate **Bankers Algorithm LO3**

**10.** Write program to implement LOOK **Disk Scheduling Policy**  **LO6**

**11. Written Assignment 1 LO6**

**Topic : File Management**

1. Explain all File Organization techniques with one example for each
2. Explain File Allocation Techniques with one example and advantages and disadvantages of each technique

**12. Written Assignment 2 LO1**

**Topic : Mobile OS**

Explain the following points

1.What is Mobile OS ??

2. Explain features of IOS and Android OS

3. Mention differences and similarities between Android OS and IOS