



Faculty of Technology and Engineering

Department of Computer Science & Engineering

Practical List

Academic Year	:	2024-25	Semester	:	4th
Course code	:	CSE208	Course name	:	Operating System

1	Perform Linux Commands for the following: 1)Directory Oriented Commands(ls, mkdir, rmdir, cd, pwd,find,du,df) 2)File Oriented Commands(cat, touch, cp, rm, mv, wc, file, cmp,rm) 3)File Processing Commands(dd,expand,nl,tac,head,tail) 4)General Purpose Commands(date, who ,whoami ,man, cal, tee, script, tput clear, split, expr)
2	Managing Users and Groups in Linux. Part (i):Create, delete and manage groups. Part(ii):Manage Directory and File Permissions in linux Part(iii):Add users in bulk in linux
3	a)Implement Pipes and Filters b)Implement Process Oriented Commands in Linux: 1)ps 2)kill 3)nohup 4)bg 5)fg 6)jobs 7)nice 8)w 9)uptime 10)lscpu 11)top
4.	Create and Manage physical, extended and logical Partitions in Linux.
5.	Implement Basic Shell Programming Commands. Write a Shell Program: i)Accepts the name of a file from the standard input and perform the following tests on it: a)File Existence b)File Readable c)File Writeable d)Both Readable and writeable



	<p>ii) Accepts the name of a file from the standard input and perform the following operations on it:</p> <ul style="list-style-type: none">a) Enter 5 names in fileb) Sort the names in Existing Filesc) List unsorted and sorted filesd) Quit <p>iii) To Prepare Electricity bill based on the following rules:</p> <ul style="list-style-type: none">a) For first 100 units-Rs. 1.00/unitb) For next 100 units-Rs. 2.00/unitc) Above 200 units-Rs. 3.00/unit
6.	<p>Implement the following CPU Scheduling Algorithms:</p> <ul style="list-style-type: none">i) Shortest Remaining Time first Algorithm.ii) Round Robin Algorithm <p>Required Input: 6 Processes</p> <p>Required Output: Gantt Chart, Table containing completion time, turn-around time, waiting time and Response Time.</p>
7.	<p>Implement following Disk Scheduling Algorithm:</p> <ul style="list-style-type: none">i) SCANii) C-LOOK
8.	<p>Implement Page Replacement Algorithms:</p> <ul style="list-style-type: none">i) FIFOii) LRU
	<p>Fast learner: Obtain certification RH124.</p> <p>Benefits: Will be evaluated in terms of practical examination if student have achieved certification by clearing examination.</p>