1. write a shell script that prompts the user for a name of a file or directory and reports if it is a regular file, a directory, or another type of file. Also perform an ls command against the file or directory with the long listing option.

2. **Write a shell script to check to see if the file "file_path" exists. If it does exist, display "file_path passwords are enabled." Next, check to see if you can write to the file. If you can, display "You have permissions to edit "file_path.""If you cannot, display "You do NOT have permissions to edit "file_path"**

3. **Write a shell script that consists of a function that displays the number of files with directory name in a directory. Name this function "file_count" and call it in your script. If you use variable in your function, remember to make it a local variable.**

4. Write a shell script function to receive system date and check current year is leap year or not.
5. Write shell script to design calculator using function and case
6. Write a C program to create a child process and display child PID, parent PID from the child process.
7. Write a script to compare larger integer values from a 'n' number of arguments using command line arguments
8. Write a script to print a given number in reverse order
9. Write script called say_hello, which will print greetings based on time
10. Write a script to locks down file permissions for a particular directory. Display the status of the directory before and after the permission changed.
11. To write a C program for simulation of Priority scheduling algorithms, Round Robin scheduling algorithms
12. To write a C-program to simulate the producer – consumer problem using semaphores.
13. To write a C program to implement banker‟s algorithm for deadlock avoidance
14. SIMULATE PAGE REPLACEMENT ALGORITHMS: (i) FIFO, (ii) LRU and (iii) Optimal
15. Implementation of Disk Scheduling Using FCFS, SCAN and C-SCAN algorithm