Set 1

1. Write a shell script that takes a final year as input from the user and displays all the leap years from the current year up to the final year.
2. Create a menu-driven shell script that provides the following functionalities:
    a. Delete all lines containing a specific word from a specified file.
    b. Count the occurrence of each word in a specified file.
    c. Exit the script.

Set 2

1. Write a shell program to print all prime numbers up to a limit.
2. Develop a shell script that performs a menu-driven program to display:

    - All ordinary files
    - All directory files
    - All special files
    - All files readable by the owner, group, and others
    - All files writable by the owner, group, and others
    - All files executable by the owner, group, and others

Set 3

1. Write a shell script that calculates nCr using a function and takes the values of n and r as command-line arguments.
2. Write a shell script that takes a file name and a range of line numbers as input and prints the specified lines from the file. The range should be inclusive (both start and end line numbers should be included).

Set 4

1. Write a shell script that takes two numbers and an arithmetic operation (+, -, *, /) as command-line arguments. Implement the arithmetic operation based on the provided operator using a case statement.
2. Create a shell script that takes a file name as input and deletes all lines that contain the word "linux" from that file. The modified content should be saved back to the original file.

Set 5

1. Create a menu-driven shell script that provides the following functionalities:
    a. Check if a given number is a prime number.
    b. Calculate the factorial of a given number.
    c. Exit the script.

2. Write a shell script to check whether two files are same or not ,if same delete one.

Set 6

1. Create a menu-driven shell script that provides the following functionalities:
    a. Display the lines of a specified file in reverse order.
    b. List all files in a specified directory.
    c. Exit the script.

2. Write shell script to test whether the given year is a leap year or not.