Assignment 1:

1. Write a C program to perform addition, subtraction, multiplication, and division of two numbers entered by the user.
2. Write a C program to check whether a given year is a leap year.
3. Write a C program to find the factorial of a given number.
4. Write a C program to input month number and year number and print number of days in that month.
5. Write a C program to find the sum of natural numbers up to a given number.
6. Write a C program to print the Fibonacci sequence up to a given number of terms.
7. Write a C program to check whether a given number is a palindrome.
8. Write a C program to check whether a given number is a prime number.
9. Write a C program to Check whether the triangle is equilateral, scalene, or isosceles *USING function*.
10. C program to check whether the triangle is valid or not if angles are given *USING function*.
11. Write a C program to accept a coordinate point in an XY coordinate system and determine in which quadrant the coordinate point lies *USING function*.
12. Write a C program to reverse the digits of a given number.
13. Write a C program to find the Least Common Multiple (LCM) of two numbers.
14. Write a C program to check whether a given number is an Armstrong number.
15. Write a C program to find the largest element in an array.
16. Write a C program to find the second largest element in an array.
17. Write a C program to find all duplicate elements in an array.
18. Write a C program to find the sum of all elements in an array.
19. Write a C program to reverse the elements of an array.
20. Write a C program to find the frequency of each element in an array.