Write a C program to:

1. Find the area and circumference of a circle
2. Find the perimeter, area of a triangle and rectangle
3. Convert a given temperature in Fahrenheit to Celsius and vice-versa
4. Find the largest among 3 integers
5. Evaluate the polynomial $3x^2 + 5x^2 + 6$ for x = 3.2 and show the result
6. Compute the roots of a quadratic equation: $ax^2 + bx + c = 0$
7. determine and print the sum of the following harmonic series for a given value of n: $s = 1 + 1/2^2 + 1/3^2 + 1/4^2 + 1/5^2 + \ldots. + 1/n^2$
8. Compute the sum of the digit of a given integer number.
9. Find the Fibonacci series for n terms
10. Check whether a given number is Prime or not
11. Check whether a given string is palindrome or not
12. extract m characters from a string, starting with the nth character.
13. Sort an array of integers in ascending and descending order
14. Set all the diagonal elements of a 2D array to 1 and others to 0
15. Calculate and print a multiplication table of numbers m to n
16. Find the minimum value from a 1D integer array using user-defined function
17. Find the number and sum of all integers greater than 100 and less than 200 that are divisible by 7 using function
18. Add, subtract and Multiply two matrices of same size
19. to compute the sum of all elements stored in array using pointers.
20. To evaluate the expression using user define function:
    $F(x) = x - x^3/3! + x^5/5! - x^7/7! + \ldots\ldots$
21. Write a C program using an array of structure to read the number of three subjects for n students and sort them according to their position. (1^{st}, 2^{nd}, 3^{rd} .....)
22. Find the factorial of an integer using a recursive function
23. To copy the contents of one file into another.
24. A file named 'DATA' contains a series of integers. Write a program to read the numbers and write all the odd numbers to a file named 'ODD' and all even numbers to a file named 'EVEN'

25. Write a C program to open a file named INVENTORY and store in it the following data:

Item name	Number	Price	Quantity
AAA-1	123	15.55	150
BBB-2	125	36.12	175
CCC-3	527	32.15	115

Extend the program to read this data from the file INVENTORY and display the inventory table with the value of each item.

INDEX

Exp. No.	Experiment Name	Page No.
1.	Write a C program …….	1-5
2.	……	6-8