**Day1: 2-Sep-2024**

1. Print Hello World
2. Add two numbers/binary numbers/characters
3. Calculate compound interest
4. Calculate power of a number
5. Swap two numbers
6. Calculate area of rectangle
7. Get 4 digit number from user, write a function to calculate sum of digits of the 4-digit number:

* Using loop
* Using recursion

1. Write a program to find the roots of equation using function.

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**Day2: 3-Sep-2024**

**1. Find roots of equations .**

**2.Calculate simple interest using principal, rate of interest**

**and period of investment.**

3.Check given number is odd or even number.

4.Check if the entered char is small letter or capital letter.

1. Write a recursive function to obtain n numbers of a Fibonacci series

0 1 1 2 3 5 8 13 21 34 55 89...

1. Write a function to find the binary equivalent of this number using recursion.
2. Write a recursive function to obtain the running sum of n numbers.
3. Write functions for calculating area of circle, rectangle, and square and call these functions from main function

**Day3: 4-Sep-2024**

1. **below patterns and their vertical flip**

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**Day4: 5-Sep-2024**

Implement functions through your program

**Declare function and call it by reference for swapping numbers**

**Create function for printing an array and call it from main ( student array)**

**Function for print factorial series with recursive**

Reverse string ( char array) with recursion

**Day5: 6-Sep-2024**

**1.Create Student struct and add rno and name in it. Create InputData function which will take an array of Students as input . Write one more function to display student data. This DisplayData function should accept Student array.**

1. **Accept n numbers from users and store them in to dynamically allocated array, Write a function to sort and display sorted array.**
2. Accept n characters from user and print is as string.
3. Accept n numbers from user and write a function to find out average and display average.
4. Accept n numbers from user and write a function to multiply each number by 2 and display result.

**Day6: 7-Sep-2024**

**Create Student class and add rno and name in it. Create AcceptData function which will take an input for student object . Write one more function to display student data. Sort an array of students by rno.**

**Create Employee class and add empNo, name, salary and dept in it. Create AcceptData function which will take an input . Write one more function to display Employee data.**

**Day7: 9-Sep-2024**

**Implement constructor, parameterized constructor , Accept, Display functions in Student class. Try to create Student objects using new operator. Try creating student array and check if constructors are getting multiple times. Write constructor with initialization list for const D.M initialization. Print this pointer inside function to check if it points to invoking object.**

**Implement constructor, parameterized constructor , Accept, Display functions in Account class. Try to create Account objects using new operator. Provide option to add an account to array for open account and display account details. Print this pointer inside function to check if it points to invoking object. Write menu driven program for this. Find account and do transactions like withdraw and deposit.**

**Day8: 10-Sep-2024**

**Use static data member to generate account number in Account assignments. Try both styles with and without pointer.**

**Use separate header and implementation files.**

**Try Student, Complex and Employee class assignments with separate header and implementation.**

**Use static data member in complex class to find out how many object are created. Write parameterized and no-arg ctor.**

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