**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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Filled diamond

**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.**

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