**List of Programming Problems:**

1. Write a program to add *n* numbers taken from the user (without using an array or using an array).
2. Write a program to show the average of *n* numbers.
3. Write a program to generate Fibonacci series up to *n*th term.
4. Write a program to calculate the sum of the terms in a Fibonacci series up to *n*th term
5. Write a program to print the following triangle:

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1. Program to find the maximum/minimum of *n* numbers (with or without using array).
2. Program to find the factorial of a given number.
3. Program to find the GCD of two numbers X and Y given by user
4. Program to find the bP of two numbers ‘b’ and ‘p’ given by user
5. Write binary search program for a given sorted array.

Note: all the numbers can be 8bits or 16 bits.

Problem-01: Write a program to add *n* numbers taken from the user (without using an array or using an array).

Solution: Here the input output sample

Input: Number of Inputs: 12  
 Enter Number:   
 23  
 45  
 10  
 8  
 6  
 9  
 200  
 111  
 1234  
 45  
 0  
 23

Output: Results: 1714

Problem-02: Write a program to show the average of *n* numbers.

Solution: Here the input output sample

Input: Number of Inputs: 8  
 Enter Number:   
 12  
 23  
 34  
 45  
 56  
 67  
 78  
 89

Output: Average: 50

Problem-03: Write a program to generate Fibonacci series up to *n*th term.

Solution: Here the input output sample

Input: Enter the Length: 15  
   
 Output: Fibonacci Series: 0 1 1 2 3 5 8 13 21 34 55 89 144 233 377

Problem-04: Write a program to calculate the sum of the terms in a Fibonacci series up to *n*th term

Solution: Here the input output sample

Input: Enter the Length: 12  
   
 Output: Sum of Fibonacci Series: 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, is 232

Problem-05: Write a program to print the following triangle:

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Solution: Here the input output sample

Input: Enter the Front for Triangle: @  
   
 Output: The Required Triangle:

@  
 @@  
 @@@  
 @@@@  
 @@@@@  
 @@@@@@  
 @@@@@@@  
 @@@@@@@@  
 @@@@@@@@@

Problem-06: Program to find the maximum/minimum of *n* numbers (with or without using array).

Solution: Here the input output sample

Input: Number of Inputs: 10  
 Enter Number:   
 12  
 23  
 34  
 45  
 56  
 67  
 78  
 89  
 456  
 12

Output: Maximum: 456  
 Minimum: 12

Problem-07: Program to find the factorial of a given number.

Solution: Here the input output sample

Input: Enter the Number to find Factorial: 5  
   
 Output: Factorial of this Number is: 120

Problem-08: Program to find the GCD of two numbers X and Y given by user

Solution: Here the input output sample

Input: Enter two numbers:  
 First Number: 12  
 Second Number: 4  
   
 Output: GCD of these Number: 4

Problem-09: Program to find the bP of two numbers ‘b’ and ‘p’ given by user

Solution: Here the input output sample

Input: Enter two numbers:  
 Enter Base: 7  
 Enter Power: 3  
   
 Output: GCD of these Number: 343

Problem-10: Write binary search program for a given sorted array.

Solution: Here the input output sample (There is some data in array in main code)

Input: Enter Number: 10  
   
 Output: Found!