

DailyFlash

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Note: Your 5th Program will be in continuation to previous program to achieve a final output. Therefore, you have continue coding in yesterday's last code.

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Program 1: Write a Program that print Addition of Series up to nth length if user provides length.

Series: $1^1*0 + 2^2*1 + 3^3*2 + \dots + n^n*n-1$

Input: Enter Length of Series: 3

Output: The addition of Series of length 3 = 734

Program 2: Write a Program that accepts a String from user. Print Only Vowels from that String.

Input: HELLO WORLD

Output: Vowels in Entered String: O O

Program 3: Write a Program that accepts a number from user and prints sum & average of elements from that array.

Input: Length of Array: 6

Enter Elements in Array: 1 2 3 4 5 6

Output:

Sum of Elements of Array: 21

Average of Elements from Array: 3.5

Program 4: Write a Program to Print following Pattern.

```
0    1    2    3    4    5    6
    2    3    4    5    6
        6    7    8
            12
```

{Continue with yesterday's last program}

Program 5: Write a Program that accepts N numbers from user and calculates Variance of those numbers.

{Steps: we can calculate Standard Deviation using following formula.

$$\text{Standard Deviation (s)} = \sqrt{v}$$

Where,

V is Variance of those numbers.

}

Input:

Enter Value N: 3

Enter Values: 1 5 2

Output:

Average (a) of Numbers = 1.5

Variance of Numbers: 2.89

Standard Deviation of Numbers: 1.7