

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: $1/(x+y)^1 * 1! + 2/(x+y)^2 * 2! + 2/(x+y)^3 * 3! + \dots + n/(x+y)^n * n!$

(Where: x & y are the numbers entered by user)

Input: Enter Values of x & y = 2 4

Enter Length of Series: 3

Output: The Addition of entered Series: 0.182

Program 2: Write a Program that accepts a String from user then finds and prints the occurrence of each vowels in that string

Input: heaven is just an illusion made by weak hearts

Output: The occurrence of vowels in the entered sting is as below

a = 5, e = 5, i = 3, o = 1, u = 2

Program 3: Write a Program that accepts two Array of Length N from user and Swaps the elements of same index from both array

Input: Length of Array: 6

Enter Elements in First Array: 1 4 3 2 5 6

Enter Elements in Second Array: 1 2 3 4 5 6

Output: Array First : 1 2 3 4 5 6, Array Second: 1 4 3 2 5 6

Program 4: Write a Program to Print following Pattern.

Input: Any String: HELLO

Output:

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                O
              L  O
            L  L  O
          E  L  L  O
        H  E  L  L  O
          E  L  L  O
            L  L  O
              L  O
                O
```

Program 5: Write a Program to calculate Period of a Simple Pendulum (T) if user provides the Frequency (F) of that pendulum in Hz.

{Steps: To calculate Length of simple pendulum we can use formula

$$T = 1 / F$$

Where,

F: is the Frequency of pendulum in Hz

T: is period of simple pendulum in seconds

}

Input: Frequency of Pendulum in Hz: 0.57

Output: Period of simple pendulum is 1.73 seconds.