

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

(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: 8.5

Program 2: Write a Program that accepts a String from user then finds and prints the word with maximum length from that string.

Input: heaven is just an illusion made by weak hearts

Output: The Word with maximum length from the entered string is: illusion

Program 3: Write a Program that accepts an Array on Length N from user and Sorts that array in ascending order.

Input: Length of Array: 6

Enter Elements in Array: 6 5 4 2 1 3

Output: Array after operation: 1 2 3 4 5 6

Program 4: Write a Program to Print following Pattern.

Output:

```
      A
    B  C
  D  E  F
    G  H
      I
```

Program 5: Write a Program calculate Length of a Simple Pendulum (L) if user provides the Period (T) of that pendulum in seconds.

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

$$L = (4 * \pi^2 * g) / T^2$$

Where,

T: is the period of pendulum in seconds

L: is length of pendulum in Meters.

g: is acceleration but we can simply use gravitation constant
since gravitational force acts on it. So (g = 9.81).

π : 3.142

}

Input: Period of Pendulum in Seconds: 1.73

Output:

Length of that pendulum in 0.75 meters.