

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

(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: 50.1

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

(Note: In the case of ambiguous behaviour, first minimum word is prioritized)

Input: heaven is just an illusion made by weak hearts

Output: The Word with minimum length from the entered string is: is

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

Input: Length of Array: 6

Enter Elements in Array: 1 4 3 2 5 6

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

Program 4: Write a Program to Print following Pattern.

Output:

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      A
    B  C
  D  E  F
    E  D
      C
```

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

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

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

Where,

T: is the period of pendulum in seconds

L: is length of pendulum in Meters.

g: is acceleration with the pendulum is oscillating

π : 3.142

}

Input:

Length of Pendulum in meters: 0.75

Period of Pendulum in Seconds: 1.73

Output:

Acceleration of that pendulum is 9.8281 m/s²