

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

(where x, y are the numbers entered by user, and a can be x if n is odd & y if n is even)

Input:

Enter Length of Series: 3

Enter Value of X & Y = 3 4

Program 2: Write a Program that accepts a String from user and replaces every vowel from that String with next alphabet.

Input: hello

Output: Replaced String: hfllp

Program 3: Write a Program that accepts a Array on Length N from user and prints square of every odd elements from that array.

Input: Length of Array: 6

Enter Elements in Array: 1 2 3 4 5 6

Output: Square of Odd Elements from that array : 1 9 25

Program 4: Write a Program to Print following Pattern.

Enter a String : HOME

Output:

```
H
H  O
H  O  M
H  O  M  E
H  O  M
H  O
H
```

{In Reference with Yesterday's Program}

Program 5: Write a Program that computes height (h) of triangle if user provides co-ordinates (x, y) of all three points of that triangle.

{Steps: we can use heron's formula that computes area of triangle using formula given below

$$A = \sqrt{s(s-a)(s-b)(s-c)}$$

Where,

$A = 1/2bh$, (b is base, h is height)

S = Semi-Perimeter of triangle

a, b, c = are the distances of all three sides of triangle

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Input:

A (x1, y1) = 5 2

B (x2, y2) = 6 3

C (x3, y3) = 3 1

Output : height (h) of the triangle = 0.62