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! + … + (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: 1446

Program 2: Write a Program that accepts a String from user then accepts a character to find occurrence of it, in that string.

Input:

Enter String: heaven is just an illusion made by weak hearts

Enter Character to find occurrence of: i

Output: The occurrence of I in the entered sting is 3

Program 3: Write a Program that accepts 2D Array of M Rows & N Columns from user and prints that array.

Input: Enter Number of rows & cols : 2 2

Elements : 1 2

3 4

Output: 1 2

3 4

Program 4: Write a Program to Print following Pattern.

Output:

```
                1
            0   1   0
        0   0   1   0   0
    0   0   0   1   0   0   0
```

Note: Program on Permutations & Combinations

Program 5: If a set n numbers is provides and you are, supposed to pick r items from that number then write a program to find the P(n, r) ways to pick r items from a set on n numbers, if user provides both n and r.
{Steps: to find permutation p(n, r) we have the formula,

P(n, r) = n!/(n-r)!

Where,

P: is the number of permutations

N: is the length of set

R: is the number of items allowed to pick at a time.

}

Input:

N = 10

R = 2

Output: To pick 2 items from a set of 10 items there are 90 possible ways.