DailyFlash

==========

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.

==========

Program 1: Write a Program that print multiplication of Series up to nth length if user provides length.

Series: (1*1) * (2*2) * (3*3) * … * (n*n).

Input: Enter Length of Series: 4

Output: The multiplication of Series of length 4 = 576

Program 2: Write a Program that replaces every occurrence of n1 with a digit n2from that number if user provides the number & digit n1 to replace and digit n2 to replace with n1.

Input:

Enter Number: 121145

Enter Digit from number to replace: 5

Enter Digit to replace with 5: 4

Output: 121144

Program 3: Write a Program that computes & prints each Numbers entered by user using do while loop until user enters an Armstrong Number.

Input: 10 6 22 50 301 153
Output: 10 6 22 50 301 Terminating

Program 4: Write a Program to Print following Pattern.

```
*   *   *   *   *   *   *
    *   *   *   *   *
        *   *   *
            *
```

{Continue with Yesterday's Last Program}

Program 5: Write a Program that computes Centre (x, y) of In-circle inside a triangle if user enters the vertices of all three points of that triangle.
{Steps:

1. Calculate centre(x,y) of an In-Circle enclosed under Triangle using Heron's formula :
   X = (b*x1) + (c*x2) + (a*x3) / P
   y = (b*y1) + (c*y2) + (a*y3) / P
   Where,
   - a, b, c are the distances of triangle ABC and
     a = d (A, B)
     b = d (B, C)
     c = d (C, A)
   Where A = (x1, y1), B = (x2, y2), C = (x3, y3)
   - P is perimeter of Triangle

}

Input:

A (x1, y1) = 5 2
B (x2, y2) = 6 3
C (x3, y3) = 3 1

Output:

Length AB = 1.41
Length BC = 3.60
Length AC = 2.23
Perimeter of Triangle = 7.24
Semi-Perimeter of Triangle = 3.62
Area of Triangle = 0.4716
Radius of In-circle = 0.1302

Centre of In-Circle(x,y) = (4.91, 2.11).