Day 49 coding Statement: Given 2 integer arrays X and Y of same size. Consider both arrays as vectors and print the minimum scalar product (Dot product) of 2 vectors.

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Input: Enter the Array length :4
      Enter the Array1 Elements : 4 3 2 1
      Enter the Array2 Elements : 5 6 7 8
Output : Dot Product : 60
Program :
package com.talentbattle.codingchallenge;
import java.util.Scanner;
public class Dot_product {
       public static void main(String[] args) {
             // TODO Auto-generated method stub
             Scanner <u>scan</u> = new Scanner(System.in);
             System.out.println("Enter the Array length ");
             int n = scan.nextInt();
             int arr1[] = new int[n];
             int arr2[] = new int[n];
             System.out.println("Enter the Array1 Elements");
             for(int i = 0;i<=arr1.length-1;i++)</pre>
                    arr1[i] = scan.nextInt();
             System.out.println("Enter the Array2 Elements");
             for(int i = 0;i<=arr2.length-1;i++)</pre>
             {
                    arr2[i] = scan.nextInt();
             int product=0;
             for(int i = 0; i<= arr1.length -1; i++)</pre>
             {
                    product = product + (arr1[i] * arr2[i]);
             }
             System.out.println("Dot Product : " + product);
      }
}
```

