Day 45 coding Statement : Write Program to find smallest and largest element in an array

Description : Get an array as input from the user and then find the smallest and largest element in the array.

Input : Enter the size of array : 5

Enter the elements : 10 20 5 40 30

Output : Smallest Number : 5

Largest Number : 40

Program :

```
package com.talentbattle.codingchallenge;

import java.util.Scanner;

public class Element_Array {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner scan = new Scanner(System.in);
		System.out.println("Enter the Array length : ");
		int n = scan.nextInt();
		int arr[] = new int[n];
		int swap =0;

		System.out.println("Enter the Array Elements : ");
		for(int i =0;i <= arr.length - 1; i++)
		{
			arr[i] = scan.nextInt();
		}

		for(int i = 0; i<arr.length - 1;i++)
		{
			for(int j = 0;j<arr.length -1 -i;j++)
			{
				if(arr[j] > arr[j+1])
				{
					swap = arr[j+1];
					arr[j+1] = arr[j];
					arr[j]=swap;
				}
			}
		}

		System.out.println("Array Elements after Sorting : ");
		for(int i =0;i <= arr.length - 1; i++)
		{
```

```
                System.out.print(arr[i] +" ");
            }
            System.out.println();

            System.out.println("Smallest element is : " + arr[0]);
            System.out.println("Largest element is : " + arr[n-1]);

        }

}
```