S.No: 24	Exp. Name: *C program to find the largest and the smallest of some numbers given by the user using arrays.*	Date:2024-10-23

Aim:

Write the c program to find the largest and the smallest of some numbers given by the user using arrays.

Source Code:

SmallLarge.c

```c
#include<stdio.h>
int main(){
    int n;
    printf("Enter no.of elements: ");
    scanf("%d", &n);
    int elements[n];
    for(int i=0;i<n;i++)
       {
       printf("Enter element %d: ",i+1);
        scanf("%d", &elements[i]);
       }
     int largest= elements[0];
     int smallest= elements[0];
     for (int i=1;i<n;i++)
       {
          if (elements[i]>largest)
          {
             largest = elements[i];
          }
          if (elements[i]<smallest)
          {
             smallest = elements[i];
          }
       }
printf("Largest element: %d\n", largest);
printf("Smallest element: %d\n", smallest);
return 0;
       }
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter no.of elements: 6
Enter element 1: 48
Enter element 2: 59
Enter element 3: 68
Enter element 4: 85
Enter element 5: 69
Enter element 6: 75
Largest element: 85
Smallest element: 48

Test Case - 2
User Output
Enter no.of elements: 5
Enter element 1: 15
Enter element 2: 26
Enter element 3: 35
Enter element 4: 47
Enter element 5: 59
Largest element: 59
Smallest element: 15