

main.c



Run

Output

Clear

```
1 #include <stdio.h>
2
3 int main() {
4     int n, i;
5     int arr[100];
6
7     printf("Enter number of elements: ");
8     scanf("%d", &n);
9
10    printf("Enter %d elements:\n", n);
11    for (i = 0; i < n; i++) {
12        scanf("%d", &arr[i]);
13    }
14
15    int smallest = arr[0];
16    int largest = arr[0];
17
18    for (i = 1; i < n; i++) {
19        if (arr[i] < smallest)
20            smallest = arr[i];
21        if (arr[i] > largest)
22            largest = arr[i];
23    }
24
25    printf("Smallest element = %d\n", smallest);
26    printf("Largest element = %d\n", largest);
27
28    return 0;
29 }
```

Enter number of elements: 2

Enter 2 elements:

6

7

Smallest element = 6

Largest element = 7

=== Code Execution Successful ===

classmate
Date _____
Page _____

Program to find the largest and smallest element in an array.

i/p :

```
#include <stdio.h>
```

```
int main() {
```

```
    int n, i;
```

```
    int arr[100];
```

```
    printf("Enter number of elements:");
```

```
    scanf("%d", &n);
```

```
    printf("Enter elements: \n");
```

```
    for(i=0; i<n; i++) {
```

```
        scanf("%d", &arr[i]);
```

```
    }
```

```
    int max = arr[0];
```

```
    int min = arr[0];
```

```
    for(i=1; i<n; i++) {
```

```
        if (arr[i] > max)
```

```
            max = arr[i];
```

```
        if (arr[i] < min)
```

```
            min = arr[i];
```

```
    }
```

```
    printf("largest element = %d \n", max);
```

```
    printf("smallest element = %d \n", min);
```

```
    return 0;
```

o/p :

```
Enter n of elements = 3
```

```
Enter elements = 1 2 3
```

```
largest element = 3
```

```
smallest element = 1
```