

## SELECTION SORT CODE:

```
1 #include<iostream>
2 using namespace std;
3 void swapping(int &a, int &b) {           //swap the content of a and b
4     int temp;
5     temp = a;
6     a = b;
7     b = temp;
8 }
9 void display(int *array, int size) {
10     for(int i = 0; i<size; i++)
11         cout << array[i] << " ";
12     cout << endl;
13 }
14 void selectionSort(int *array, int size) {
15     int i, j, imin;
16     for(i = 0; i<size-1; i++) {
17         imin = i;           //get index of minimum data
18         for(j = i+1; j<size; j++)
19             if(array[j] < array[imin])
20                 imin = j;
21         //placing in correct position
22         swap(array[i], array[imin]);
23     }
24 }
```

```
24 }
25 int main() {
26     int n;
27     cout << "Enter the number of elements: ";
28     cin >> n;
29     int arr[n];           //create an array with given number of elements
30     cout << "Enter elements:" << endl;
31     for(int i = 0; i<n; i++) {
32         cin >> arr[i];
33     }
34     cout << "Array before Sorting: ";
35     display(arr, n);
36     selectionSort(arr, n);
37     cout << "Array after Sorting: ";
38     display(arr, n);
39 }
```

## OUTPUT:

```
input
Enter the number of elements: 10
Enter elements:
5
8
1
4
2
97
3
8
6
5
Array before Sorting: 5 8 1 4 2 97 3 8 6 5
Array after Sorting: 1 2 3 4 5 5 6 8 8 97

...Program finished with exit code 0
Press ENTER to exit console.
```