

Insertion Sort

```
#include<iostream.h>
#include<conio.h>
int temp, n, arr[15], j, i = 0;
class insert {
  public:
 void getData();
 void sort();
 void display();
};
void insert::getData() {
 cout<<"Enter the range: ";</pre>
 cin>>n;
 for (; i < n; i++) {
    cout<<"Enter the "<<i+1<<" element: ";</pre>
   cin>>arr[i];
 }
}
void insert::sort() {
 for (i = 1; i < n; i++) {
    j = i;
    temp = arr[i];
    while (j > 0 \&\& arr[j - 1] > temp) {
     arr[j] = arr[j - 1];
     j--;
   arr[j] = temp;
 }
void insert::display() {
  cout<<"The array after sorting:\n";</pre>
 for (j = 0; j < n; j++) {
   cout<<arr[j]<<" ";
 }
}
void main() {
  clrscr();
```

Insertion Sort 1

```
insert I;
I.getData();
I.sort();
I.display();
getch();
}
```

Insertion Sort 2