

```
#include<iostream.h>
#include<conio.h>
class demo
{
    int a[10],i,last,exch,j,n,temp;
public:
    void get();
    void asc_sort();
    void dec_sort();
    void disp();
};

void demo::get()
{
    cout<<"\n Enter the array size:";
    cin>>n;
    cout<<"\nEnter the array element:";
    for(i=1;i<=n;i++)
        cin>>a[i];
}

void demo::asc_sort()
{
    last=n;
    for(i=1;i<=n-1;i++)
    {
        exch=0;
        for(j=1;j<=last-1;j++)
        {
            if(a[j]>a[j+1]) //change a[j]<a[j+1] for descending sort
            {
                temp=a[j];
                a[j]=a[j+1];
                a[j+1]=temp;
                exch=exch+1;
            }
        }
        if(exch==0)
            return;
        else
            last=last-1;
    }
}

void demo::dec_sort()
{
    last=n;
    for(i=1;i<=n-1;i++)
    {
        exch=0;
        for(j=1;j<=last-1;j++)
        {
            if(a[j]<a[j+1])
```

```

        {
            temp=a[j];
            a[j]=a[j+1];
            a[j+1]=temp;
            exch=exch+1;
        }
    }
    if(exch==0)
        return;
    else
        last=last-1;
}

void demo::disp()
{
    cout<<"\nThe array element are :";
    for(i=1;i<=n;i++)
        cout<<a[i]<<"\t";
}

void main()
{
    clrscr();
    demo d;
    d.get();
    d.disp();
    d.asc_sort();
    cout<<"\nAfter Ascending Sort:";
    d.disp();
    d.dec_sort();
    cout<<"\nAfter Descending Sort:";
    d.disp();
    getch();
}

*/ Output */

```

Enter the array size: 3

Enter the array element: 12 3 45

The array element are: 12 3 45

After Ascending Sort:

The array element are: 3 12 45

After Descending Sort:

The array element are: 45 12 3

```
#include<iostream.h>
#include<conio.h>

class demo
{
    int a[10],i, min_index,j,n,temp,max_index;
public:
    void get();
    void asc_sort();
    void dsc_sort();
    void disp();
};

void demo::get()
{
    cout<<"\nEnter the array size:";
    cin>>n;
    cout<<"\nEnter the array element:";
    for(i=1;i<=n;i++)
        cin>>a[i];
}

void demo::asc_sort()
{
    for(i=1;i<=n-1;i++)
    {
        min_index=i;
        for(j=i+1;j<=n;j++)
        {
            if(a[j]<a[min_index]) // change a[j]>a[min_index] for descend
                min_index=j;
        }

        if(min_index!=i)
        {
            temp=a[min_index];
            a[min_index]=a[i];
            a[i]=temp;
        }
    }
}

void demo::dsc_sort()
{
    for(i=1;i<=n;i++)
    {
        max_index=i;
        for(j=i+1;j<=n;j++)
        {
            if(a[j]>a[max_index])
                min_index=j;
        }

        if(max_index!=i)
```

```

        {
            temp=a[max_index];
            a[max_index]=a[i];
            a[i]=temp;
        }
    }
}

void demo::disp()
{
    cout<<"\n The array element are ";
    for(i=1;i<=n;i++)
        cout<<a[i]<<"\t";
}

void main()
{
    clrscr();
    demo d;
    d.get();
    d.disp();
    d.asc_sort();
    cout<<"\nAfter ascending sort :";
    d.disp();
    d.dsc_sort();
    cout<<"\n After Descending sort :";
    d.disp();
    getch();
}

```

*/ Output */

Enter the array size:4

Enter the array element:12 3 -45 -6

The array element are	12	3	-45	-6
After ascending sort:				
The array element are	-45	-6	3	12
After Descending sort:				
The array element are	12	3	-6	-45