

//Selection Sort//

```
#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;
}

temp=a[min_index];
a[min_index]=a[i];
a[i]=temp;
}
}

void demo::dsc_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;
        }

        temp=a[min_index];
        a[min_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();  
}
```