//Insertion Sort

```
#include<iostream.h>
#include<conio.h>
class demo
{
int a[10],i,j,n,temp;
public:
void get();
void insertionSort();
void disp();
};
void demo::get()
{
cout<<"\n Enter the array size:";
cin>>n;
cout<<"\nEnter the array element:";
for(i=0;i<n;i++)
cin>>a[i];
}
void demo::insertionSort()
{
   int i, key, j;
   for (i = 1; i <n; i++)
   {
            key = a[i];
            j = i - 1;
            // Move elements of arr[0..i-1],
            // that are greater than key, to one
```

```
            // position ahead of their
            // current position
            while (j >= 0 && a[j] > key)
            {
                a[j + 1] = a[j];
                j = j - 1;
            }
            a[j + 1] = key;
    }
}
void demo::disp()
{
cout<<"\nThe array element are :";
for(i=0;i<n;i++)
cout<<a[i]<<"\t";
}
void main()
{
clrscr();
demo d;
d.get();
d.insertionSort();
cout<<"\nAfter Ascending Sort:";
d.disp();
getch();
}
```