PROGRAM

```
#include<stdio.h>
void insertionsort(int a[],int n)
{
           int i,j,key;
           for(i=1;i<n;i++)
                      key=a[i];
                      j=i-1;
                                 while(j \ge 0 \&\& a[j] \ge key)
                                             a[j+1]=a[j];
                                            j--;
                      a[j+1]=key;
void read(int a[],int n)
           int i;
           printf("Enter the numbers : ");
for(i=0;i<n;i++)</pre>
scanf("%d",&a[i]);
}void print(int a[],int n)
           int i;
           printf("Sorted array : ");
           for(i=0;i<n;i++)
           printf("%d\n",a[i]);
void main()
           int a[100],n;
           printf("Size of the array: "); scanf("%d",&n); read(a,n);
           insertionsort(a,n);
           print(a,n);
OUTPUT
Size of the array: 7
Enter the numbers: 43
65
12
56
43
23
78
Sorted array: 12
23
43
43
56
65
78
```