Insertion Sort:

```
void insertionSort(int a[], int n)
       key = a[i];
       while (j \ge 0 \&\& key < a[j])
           a[j + 1] = a[j];
       a[j + 1] = key; //j is reduced by 1 so add 1
nt main()
   printf("Enter number of elements: ");
   scanf("%d", &n);
   printf("Enter the elements: ");
       scanf("%d", &a[j]);
   insertionSort(a, n);
   printf("After sorting :");
       printf("%d ", a[j]);
```

OUTPUT:

```
User@PRATHIKSHA /c/ada lab

$ cd "/c/ada lab/" && gcc insertion_sort.c -o insertion_sort && "/c/ada lab/"insertion_sort

Enter number of elements: 7

Enter the elements: 10 0 -5 9 2 1 0

After sorting :-5 0 0 1 2 9 10
```