

[■] INSERTIO.C

```
#include<stdio.h>
#include<conio.h>
int a[20],n,i,j,temp;
void display(){
for(i=0;i<n;i++){
printf("Element %d=%d\n",i+1,a[i]);
}
}
void insertionsort(){
printf("\nInsertion sort function is called..\n");
temp,i,j;
for(i=0;i<n;i++){
temp=a[i];
j=i-1;
while(a[j]>temp && j>=0){
a[j+1]=a[j];
j--;
}
a[j+1]=temp;
}
}
```

```
j=i-1;
while(a[j]>temp && j>=0){
a[j+1]=a[j];
j--;
}
a[j+1]=temp;
}
}

void main(){
clrscr();
printf("Enter the size of the array:");
scanf("%d",&n);
for(i=0;i<n;i++){
printf("\nEnter the element %d:",i+1);
scanf("%d",&a[i]);
}
insertionsort();
display();
getch();
}
```



Enter the size of the array:5

Enter the element 1:65

Enter the element 2:9

Enter the element 3:54

Enter the element 4:76

Enter the element 5:2

Insertion sort function is called..

Element 1=2

Element 2=9

Element 3=54

Element 4=65

Element 5=76