INSERTION SORT

```c
#include<stdio.h>
void insertionsort(int arr[],int n){
        int i,j,k;
        for(i=1;i<n;i++){
                k=arr[i];
                j=i-1;
                while(j>=0&&arr[j]>k){
                        arr[j+1]=arr[j];
                        j--;
                }
                arr[j+1]=k;
        }
}
int main(){
        int arr[100],n,i;
        printf("Enterthe no of element: ");
        scanf("%d",&n);
        printf("Enter the element of the ");
        for(i=0;i<n;i++){
                scanf("%d",&arr[i]);
        }
        insertionsort(arr,n);
        printf("The sorted array:");
        for(i=0;i<n;i++){
                printf("%d ",arr[i]);
        }
}
```

OUTPUT:

```
Enterthe no of element: 5
Enter the element of the 1 4 6 9 2
The sorted array:1 2 4 6 9
--------------------------------
Process exited after 23.37 seconds with return value 0
Press any key to continue . . .
```