**INSERTION SORT IN ARRAY**

#include<iostream.h>

#include<limits.h>

#include<conio.h>

void Inssort(int[],int);

void main()

{int AR[50],ITEM,N,index;

cout<<"How many elements do you want to create array with ? (max. 50) \n";

cin>>N;

cout<<"\n Enter Array elements..\n";

for(int i=1;i<=N;i++)

cin>>AR[i];

Inssort (AR,N);

cout<<"\n\n The Sorted array is as shown below \n";

for (i=1;i<=N;i++)

cout<<AR[i]<<" ";

cout<<endl;

getch();}

void Inssort (int AR[],int size)

{int tmp,j;

AR[0]=INT\_MIN;

for (int i=1;i<=size;i++)

{tmp=AR[i];

j=i-1;

while (tmp<AR[j])

{ AR[j+1]=AR[j];

j--;}

AR[j+1]=tmp;

cout<<"Array after pass - "<<i<<"- is : ";

for (int k=1;k<=size;k++)

cout<<AR[k]<<" ";

cout<<endl;}}

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*OUTPUT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

