**Assignment No : 4.5**

**Title : Implementation of Program of sorting techniques using array.(Insertion sort)**

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#include<iostream.h>

#include<conio.h>

void INSERTION\_SORT(int \*arr,int n);

void INSERTION\_SORT(int \*arr,int n)

{

for(int i=2;i<=n;i++)

{

int ele=arr[i];

for(int j=i-1;(j>=1) && (ele<arr[j]);j--)

{

arr[j+1]=arr[j];

arr[j]=ele;

}

}

}

void main()

{

clrscr();

int n,arr[10];

cout<<"Enter size of an array"<<endl;

cin>>n;

cout<<"Enter elements in array"<<endl;

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

{

cin>>arr[i];

}

INSERTION\_SORT(arr,n);

cout<<"sorted elements are"<<endl;

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

{

cout<<arr[i]<<"\t";

}

getch();

}