/\*Program to sort an array inascending order using **Selection sort** \*/

#include<iostream.h>

#include<conio.h>

void main()

{clrscr();

int A[80],n;

lb: cout<<"Enter the size of array : ";

cin>>n;

if(n<=0||n>80)

{cout<<"\n\nEnter size of array less than or equal to 80.";

goto lb;

}

cout<<"\n\nEnter the elements of array : \n\n";

for(int i=0; i<n; i++)

cin>>A[i];

void selection\_sort(int A[],int n);

selection\_sort(A,n);

cout<<"\n\n\n\n\nSorted array is : \n\n";

for(i=0; i<n; i++)

cout<<A[i]<<" ";

getch();

}

void selection\_sort(int A[], int n)

{int small; int k,count=0;

for(int i=0; i<n; i++)

{ small=A[i]; count++;

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

{

if(A[j]<small)

{small=A[j];

A[j]=A[i];

A[i]=small;

}

}

cout<<"\n\nArray after iteration "<<count<<" is :\n\n";

for(k=0; k<n; k++)

cout<<A[k]<<" ";

}

}

**Output:**

Enter the size of array : 5

Enter the elements of array :

1

8

2

3

9

Array after iteration 1 is :

1 2 8 3 9

Array after iteration 2 is :

1 2 3 8 9

Array after iteration 3 is :

1 2 3 8 9

Array after iteration 4 is :

1 2 3 8 9

Sorted array is :

1 2 3 8 9