/\* Program to sort the given array in ascending order using **bubble sort method** \*/

#include<iostream.h>

#include<conio.h>

void main()

{clrscr();

int A[80],n;

cout<<"Enter desired size of array (<80): "; cin>>n;

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

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

cin>>A[i];

cout<<"\n\nArray of elements is as shown below : \n\n";

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

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

cout<<"\n\nNow Elements will be arranged in ascending order using bubble sort :\n\n";

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

bubble\_sort(A,n);

getch();

}

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

{ int temp; int count=0;

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

{

for(int j=0; j<n-1; j++)

{ if(A[j+1]<A[j])

{ count++;

temp=A[j+1];

A[j+1]=A[j];

A[j]=temp;

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

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

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

}

}

}

}

**Output:**

Enter desired size of array (<80): 5

Enter the array :

9

7

1

3

4

Array for iteration 1 is :

7 9 1 3 4

Array for iteration 2 is :

7 1 9 3 4

Array for iteration 3 is :

7 1 3 9 4

Array for iteration 4 is :

7 1 3 4 9

Array for iteration 5 is :

1 7 3 4 9

Array for iteration 6 is :

1 3 7 4 9

Array for iteration 7 is :

1 3 4 7 9

Sorted array is :

1 3 4 7 9