**Batch:-B3 Date:23/01/2024**

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**Practical No: Program To Implement Bubble Sort Practical No:1**

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#include<iostream>

using namespace std;

void bubblesort(int arr[], int n)

{

int i,j,t;

for(i=0;i<n-1;++i)

{

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

{

if(arr[j]>arr[j+1])

{

t=arr[j];

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

arr[j+1]=t;

}

}

}

};

int main()

{

int n,i;

cout<<"\n Enter the elements to be sorted :";

cin>>n;

int arr[n];

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

{

cout<<"Enter the elemet :"<<i+1<<":";

cin>>arr[i];

}

bubblesort(arr,n);

cout<<"\n sorted elements :";

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

{

cout<<"->"<<arr[i];

}

return 0;

};

**Output:-**

**Enter the elements to be sorted :5**

**Enter the elemet :1:23**

**Enter the elemet :2:43**

**Enter the elemet :3:55**

**Enter the elemet :4:61**

**Enter the elemet :5:77**

**sorted elements :->23->43->55->61->77**

**--------------------------------**

**Process exited after 18.46 seconds with return value 0**

**Press any key to continue . . .**