

University of engineering & technology Peshawar



COMPUTER PROGRAMMING –theory **Assignment#02**

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Section: B

Reg No: 19PWCSE1795

Semester: 2nd

“On my honor, as a student of University of Engineering and Technology Peshawar, I have neither given nor received unauthorized assistance on this academic work”

Student signature: _____

**Submitted to:
Prof: Javad Ather Sethi**

Department Of Computer System Engineering

```

#include <iostream>

using namespace std;

//sort arr[] of size n using bubble sort.

void bubblesort ( int arr[], int n)
{
    int i,j;
    for(int i=0; i<n; i++)
    {
        for(j=0; j<n-1; ++j)
        {
            if (arr[j]>arr[j+1])
            {
                arr[j]=arr[j]+arr[j+1];
                arr[j+1]=arr[j]-arr[j+1];
                arr[j]=arr[j]-arr[j+1];
            }
        } //value at n-i-1 will be maximum of all the values below this index.
    }

}

int main()
{
    int n,i;

    cout<<"\nEnter the number of elements to be sorted: ";
    cin>>n;

```

```

int arr[n];

for(int i=0; i<n; i++)
{
    cout<<"enter elements "<<i+1<<": ";
    cin>>arr[i];
}

bubblesort(arr,n);

//display the sorted data

cout<<"\nsorted data ";

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

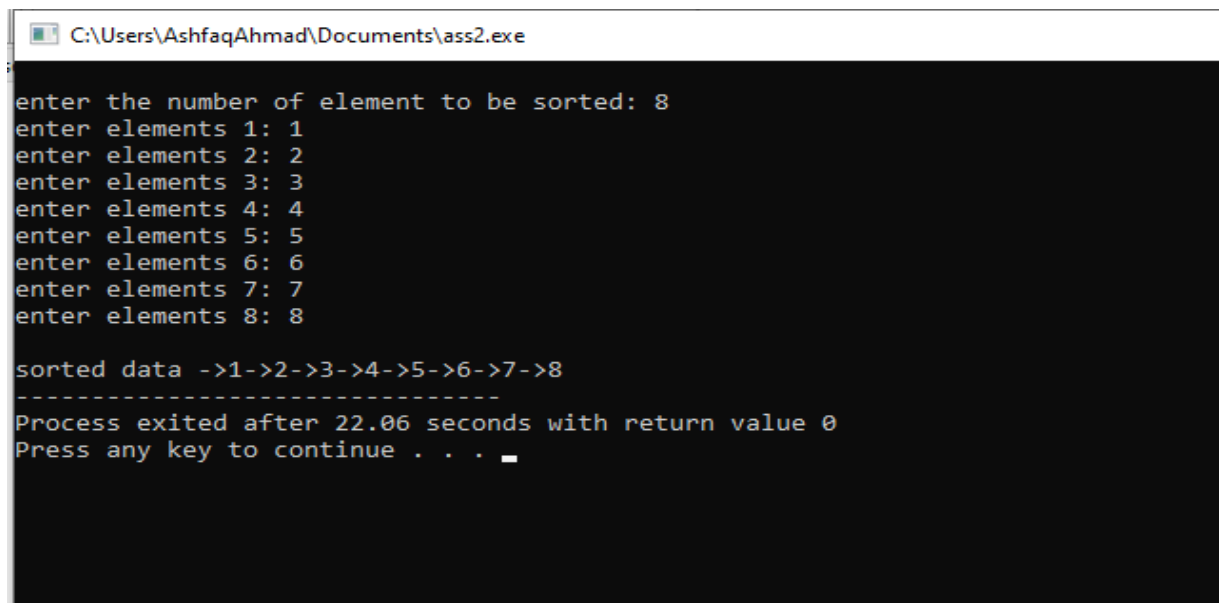
cout<<"->"<<arr[i];

return 0;

}

```

Compilation:



```

C:\Users\AshfaqAhmad\Documents\ass2.exe

enter the number of element to be sorted: 8
enter elements 1: 1
enter elements 2: 2
enter elements 3: 3
enter elements 4: 4
enter elements 5: 5
enter elements 6: 6
enter elements 7: 7
enter elements 8: 8

sorted data ->1->2->3->4->5->6->7->8
-----
Process exited after 22.06 seconds with return value 0
Press any key to continue . . .

```

