University of engineering & technology Peshawar

COMPUTER PROGRAMMING –theory

Assignment#02

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Section: B

Reg No: 19PWCSE1795

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"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:
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```
#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 bemaximum of all the values below this index.
         }

}
 int main()
{
        int n,i;
        cout<<"\nenter the number of element 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: