/\*

Name : Amit Bandu Swami

Roll No.: 2221018

Batch : A Experiment no.: 06

Title : C++ program for Sorting an integer and Float array using template

\*/

//Program: #include<iostream> using namespace std; template<class T> void bubble(T a[],int n)

{

int i,j;

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

{

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

{

if(a[i]>a[j])

{

T temp; temp=a[i]; a[i]=a[j]; a[j]=temp;

}

}

}

}

int main()

{

int a[10],m,i,n; float b[10];

cout<<"Enter size of integers in array"<<endl; cin>>m;

cout<<"Enter the integer values: "<<endl; for(i=0;i<m;i++)

{

cin>>a[i];

}

bubble(a,m);

cout<<"Sorted Ordered Integers: "<<endl; for(i=0;i<m;i++)

{

cout<<a[i]<<endl;

}

cout<<"Enter size of floats in array"<<endl; cin>>n;

cout<<"Enter the float values: "<<endl; for(i=0;i<n;i++)

{

cin>>b[i];

}

bubble(b,n);

cout<<"Sorted Ordered Float: "<<endl; for(i=0;i<m;i++)

{

cout<<b[i]<<endl;

}

return 0;

}

/\*

**OUTPUT:**

Enter the integer values: 63

32

15

26

20

Sorted Ordered Integers: 15

20

26

32

63

Enter size of floats in array 5

Enter the float values: 3.2

3.6

5.3

1.2

1.9

Sorted Ordered Float: 1.2

1.9

3.2

3.6

5.3

\*/