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Assignment : 6

Batch : A

Sub: OOP

Problem Statement: Write C++ Program for selection sort using funcation Template.

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#include<iostream> using namespace std;

template <typename v> void sort(v p[5]);

int main()

{

int a[5];

char b[5]; float c[5]; int i;

for(i=0;i<5;i++)

{

cout<<"\n Enter the Integer == "<<endl; cin>>a[i];

}

for(i=0;i<5;i++)

{

cout<<"\n Enter the Charactor == "<<endl; cin>>b[i];

}

for(i=0;i<5;i++)

{

cout<<"\n Enter the float value == "<<endl; cin>>c[i];

}

sort(a);

sort(b);

sort(c);

}

template<typename v> void sort(v p[5])

{

int i,j; int t;

cout<<endl;

cout<<"\n Unsorted array"<<endl; for(i=0;i<5;i++)

cout<<p[i]<<endl;

for(i=0;i<4;i++)

{

for(j=i+1;j<5;j++)

{

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

{

t=p[i]; p[i]=p[j]; p[j]=t;

}

}

}

cout<<endl;

cout<<"\n Sorted array"<<endl; for(i=0;i<5;i++) cout<<p[i]<<endl;

}

/\* Output:

Enter the Integer == 12

Enter the Integer == 43

Enter the Integer == 27

Enter the Integer == 85

Enter the Integer == 90

Enter the Charactor == a

Enter the Charactor == b

Enter the Charactor == m

Enter the Charactor == d

Enter the Charactor == x

Enter the float value == 12.00

Enter the float value ==

98.65

Enter the float value == 98.76

Enter the float value == 54.98

Enter the float value == 99.00

Unsorted array 12

43

27

85

90

Sorted array 12

27

43

85

90

Unsorted array

a b m d x

Sorted array a

b d m x

Unsorted array 12

98.65

98.76

54.98

99

Sorted array 12

54.98

98

98

99

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