

/*

Title: - Write a function template selection Sort. Write a program that inputs, sorts and outputs an int array and a float array.

Roll No:-

Class:-SE Computer

Sub:-OOPL & CGL

Date:-

*****/

Program-

```
#include<iostream>
using namespace std;
#define size 10
int n;
template<class T>
void selection(T A[size])
{
    int i,j,min;
    T temp;
    for(i=0;i<=n-2;i++)
    {
        min=i;
        for(j=i+1;j<=n-1;j++)
        {
            if(A[j]<A[min])
                min=j;
        }
        temp=A[i];
        A[i]=A[min];
        A[min]=temp;
    }
    cout<<"\nSorted list=\n";
    for(i=0;i<n;i++)
        cout<<"\t"<<A[i];
}
int main()
{
    int i,A[size];
    float B[size];
    cout<<"Selection sort\n";
    cout<<"\nInteger Element\n";
```

```

        cout<<"Enter how many elements you want\n";
        cin>>n;
        cout<<"\nEnter the Integer element\n";
        for(i=0;i<n;i++)
            cin>>A[i];
        selection(A);

        cout<<"\nFloat Element\n";
        cout<<"Enter how many elements you want\n";
        cin>>n;
        cout<<"\nEnter float element\n";
        for(i=0;i<n;i++)
            cin>>B[i];
        selection(B);
        return 0;
    }

```

/*Output:-

student@student-OptiPlex-3010:~\$ g++ FinalPract B2.cpp

student@student-OptiPlex-3010:~\$./a.out

Selection sort

Integer Element

Enter how many elements you want

5

Enter the Integer element

7

5

8

9

3

Sorted list=

3 5 7 8 9

Float Element

Enter how many elements you want

5

Enter the float element

3.8

9.4

5.5

2.2

6.7

Sorted list=

2.2 3.8 5.5 6.7 9.4