# Practical no : 05

**Title:-** Write a function template for selection sort that inputs, sorts and outputs an integer array and a float array.

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# Input:

#include<iostream> using namespace std; int n;

#define size 10 template<class T> void sel(T A[size])

{

int i,j,min;

T temp;

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

{

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

{

if(A[j]<A[min]) min=j;

}

temp=A[i]; A[i]=A[min]; A[min]=temp;

}

cout<<"\nSorted array: "; for(i=0;i<n;i++)

{

cout<<" "<<A[i];

}

}

int main()

{

int choice; char C[size]; int A[size]; float B[size]; int i;

cout<<" ";

do

{

cout<<"\n 1. Integer : "; cout<<"\n 2. Float : "; cout<<"\n 3. Exit : "<<endl;

cout<<"\n Enter Choice : "; cin>>choice; switch(choice)

{

case 1:

{

cout<<"\nEnter Total Number Of Integer Elements:"; cin>>n;

cout<<"\nEnter Integer Elements:"<<endl; for(i=0;i<n;i++)

{

cin>>A[i];

}

case 2:

{

}

sel(A); break;

cout<<"\nEnter Total Number Of Float Elements:"; cin>>n;

cout<<"\nEnter Float Elememts:"<<endl; for(i=0;i<n;i++)

{

}

case 3:

{

}

sel(B); break;

cin>>B[i];

cout<<"\*\*\*\*\*\*\*\*\*Program Exited Successfully\*\*\*\*\*\*\*\*\*"<<endl; exit(0);

}

default:

{

cout<<"\n Invalid";

}

}

}

while(choice!=4); return 0;

}

**Output:**

