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ROLL NO:- 27 (S2)

PRACTICAL NO:5

```
#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-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 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:-

Integer Element

Enter how many elements you want

5

Enter the Integer element

1

8

5

4

2

Sorted list=

1

Float Element

Enter how many elements you want

4

Enter float element

1.6

5.2

3.2

8.

Sorted list=

1.6 3.2 5.2 8.1

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