

```
Bubble Sorting:
#include<iostream>>
using namespace std;
int main()
{
       int a[50],n,i,j,temp;
       cout<<"Enter the size of array: ";
       cin>>n;
       cout<<"Enter the array elements: ";
       for(i=0;i<n;++i)
              cin>>a[i];
       for(i=1;i<n;++i)
              for(j=0;j<(n-i);++j)
                                                 1980
                      if(a[j]>a[j+1])
                      {
                             temp=a[j];
                             a[j]=a[j+1];
                             a[j+1]=temp;
                      }
       }
```

Output:

```
C:\Users\Pc\Documents\CPP Lab pactice\bubble_sorting.exe

Enter the size of array: 5

Enter the array elements: 78

555

24

2

5

Array after bubble sort: 2 5 24 78 555

Process exited after 13.68 seconds with return value 0

Press any key to continue . . .
```

1980

Selection Sorting:

```
#include<iostream>
using namespace std;
int main()
{
```

```
int i,j,n,loc,temp,min,a[30];
  cout<<"Enter the number of elements:";</pre>
  cin>>n;
  cout<<"\nEnter the elements\n";</pre>
  for(i=0;i<n;i++)
  {
    cin>>a[i];
  }
  for(i=0;i<n-1;i++)
  {
    min=a[i];
    loc=i;
    for(j=i+1;j<n;j++)
      if(min>a[j])
      {
                                                  1980
         min=a[j];
         loc=j;
      }
    }
    temp=a[i];
    a[i]=a[loc];
4 | Page
```

```
a[loc]=temp;
}

cout<<"\nSorted list is as follows\n";

for(i=0;i<n;i++)
{
    cout<<a[i]<<" ";
}

return 0;
}
```

Output:

```
C:\Users\Pc\Documents\CPP Lab pactice\selection_sorting.exe

Enter the number of elements:6

Enter the elements
34
5454
5
21
0
4

Sorted list is as follows
0 4 5 21 34 5454

Process exited after 15.31 seconds with return value 0
Press any key to continue . . .
```