

Contoh Program Sorting:

```
order asc.cpp
1 #include<iostream>
2 using namespace std;
3
4 void BubbleSort(int data[], int n);
5
6 int main()
7 {
8     int i, n = 9, data[] = {10, 40, 20, 60, 15, 4, 8, 100, 200, 25};
9
10    cout<<"Pengurutan Menaik"<<endl;
11    cout<<"-----"<<endl;
12    cout<<"Sebelum diurutkan: "<<endl;
13
14    for(i = 0; i <= n; i++)
15    {
16        cout<<data[i]<<" ";
17    }
18
19    cout<<endl;
20
21    cout<<"-----"<<endl;
22
23    BubbleSort(data, n);
24
25    cout<<"Setelah diurutkan: "<<endl;
26
27    for(i = 0; i <= n; i++)
28    {
29        cout<<data[i]<<" ";
30    }
31
32    cout<<endl;
33
34    return 0;
35 }
36
37 void BubbleSort(int array1[], int n)
38 {
39     int i, j, tmp;
40
41     for(i = 1; i <= n; i++)
42     {
43         for(j = n; j >= i; j--)
44         {
45             // controller asc and desc
46             if(array1[j] < array1[j-1])
47             {
48                 tmp = array1[j];
49                 array1[j] = array1[j-1];
50                 array1[j-1] = tmp;
51             }
52         }
53     }
54 }
55
56 }
```

```
D:\Documents\File Dev C++\order asc.exe
Pengurutan Menaik
-----
Sebelum diurutkan:
10 40 20 60 15 4 8 100 200 25
-----
Setelah diurutkan:
4 8 10 15 20 25 40 60 100 200
-----
Process exited after 0.05929 seconds with return value 0
Press any key to continue . . .
```

Source Code:

```
#include<iostream>
using namespace std;
void BubbleSort(int data[], int n);

int main()
{
    int i, n = 9, data[] = {10, 40, 20, 60, 15, 4, 8, 100, 200, 25};

    cout<<"Pengurutan Menaik"<<endl;
    cout<<"-----"<<endl;
    cout<<"Sebelum diurutkan: "<<endl;

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

    cout<<endl;

    cout<<"-----"<<endl;

    BubbleSort(data, n);

    cout<<"Setelah diurutkan: "<<endl;

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

    cout<<endl;

    return 0;
}
```

```
void BubbleSort(int array1[], int n)
{
    int i, j, tmp;

    for(i = 1; i <= n; i++)
    {
        for(j = n; j >= i; j--)
        {
            // controller asc and desc
            if(array1[j] < array1[j-1])
            {
                tmp = array1[j];

                array1[j] = array1[j-1];

                array1[j-1] = tmp;
            }
        }
    }
}
```