

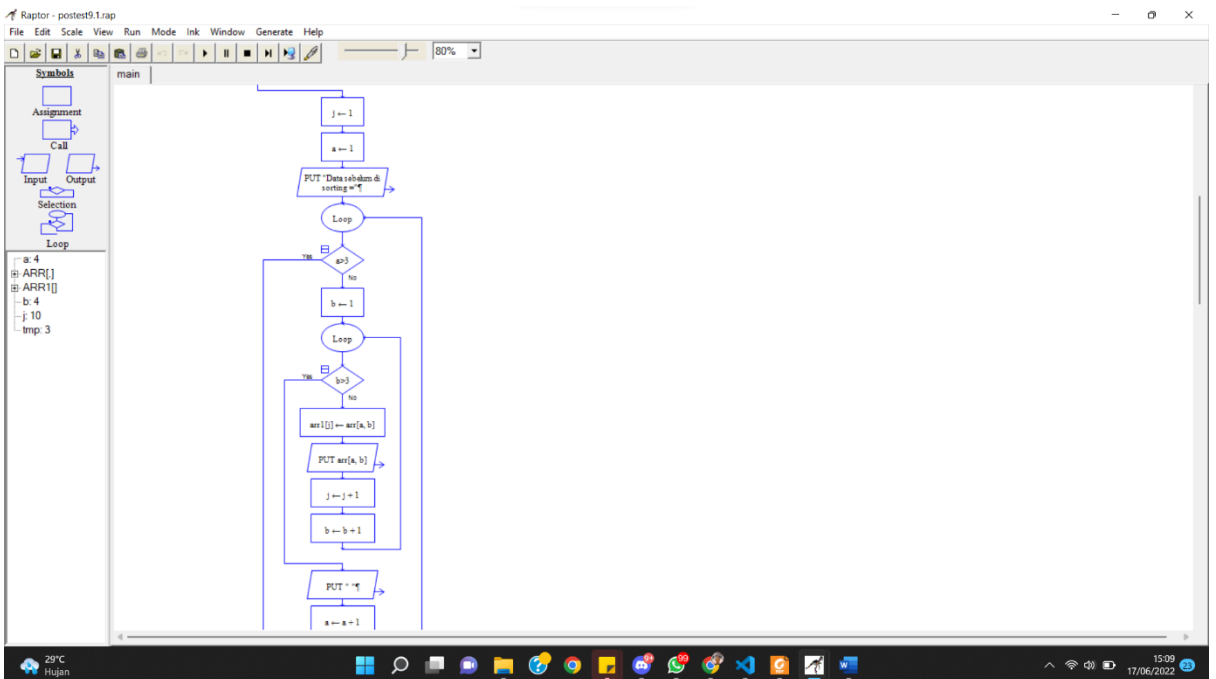
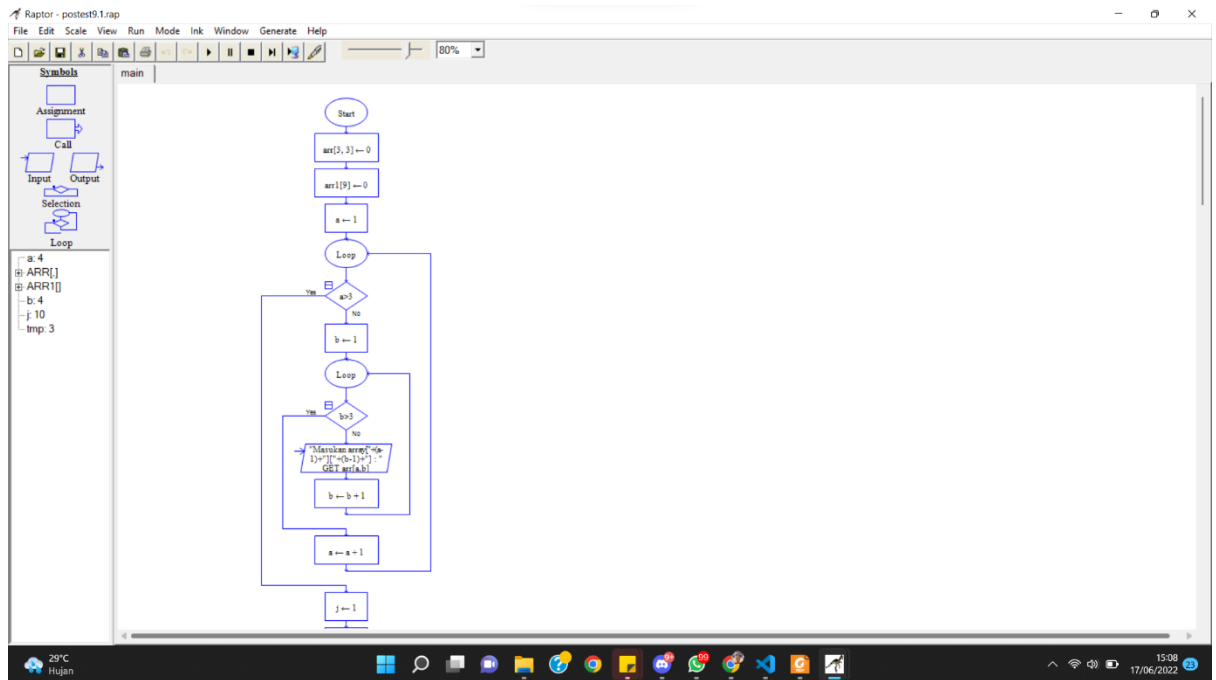
Nama : Ibnu Zaman

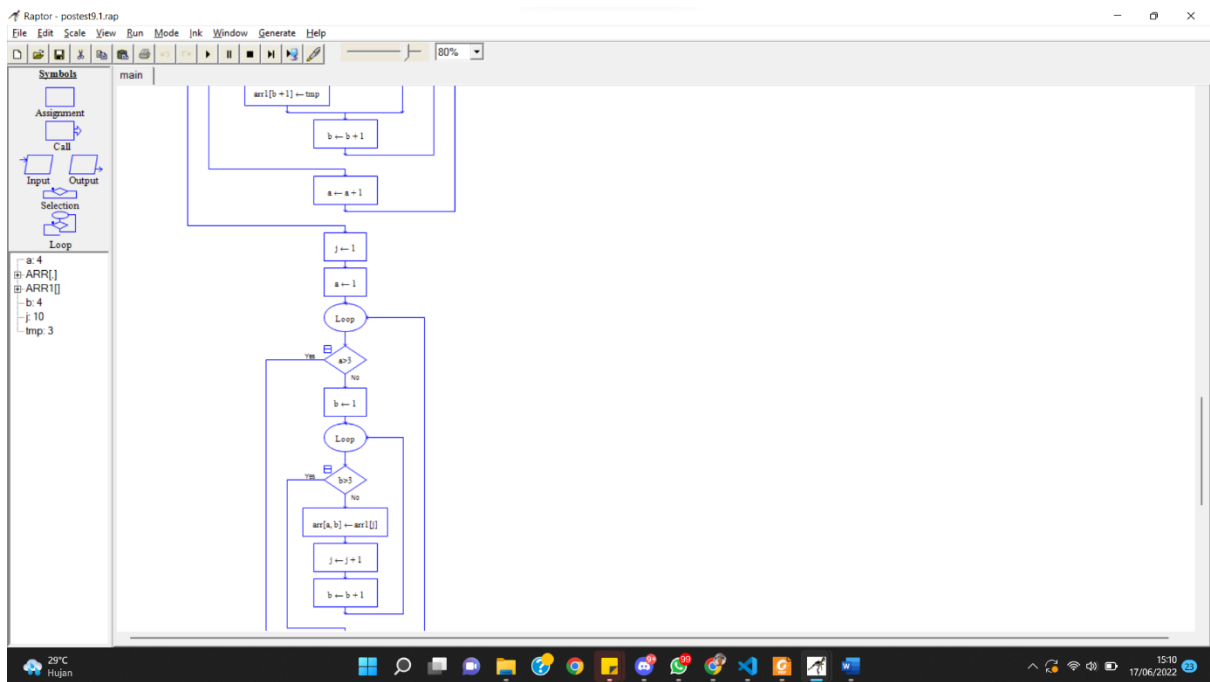
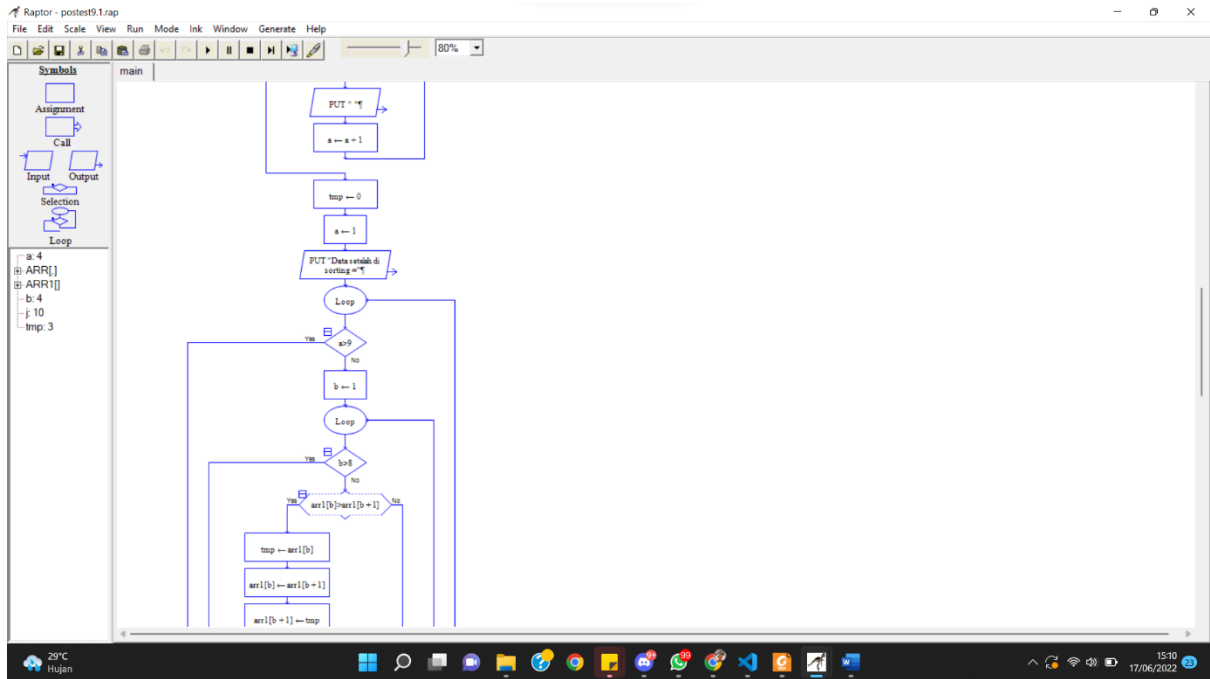
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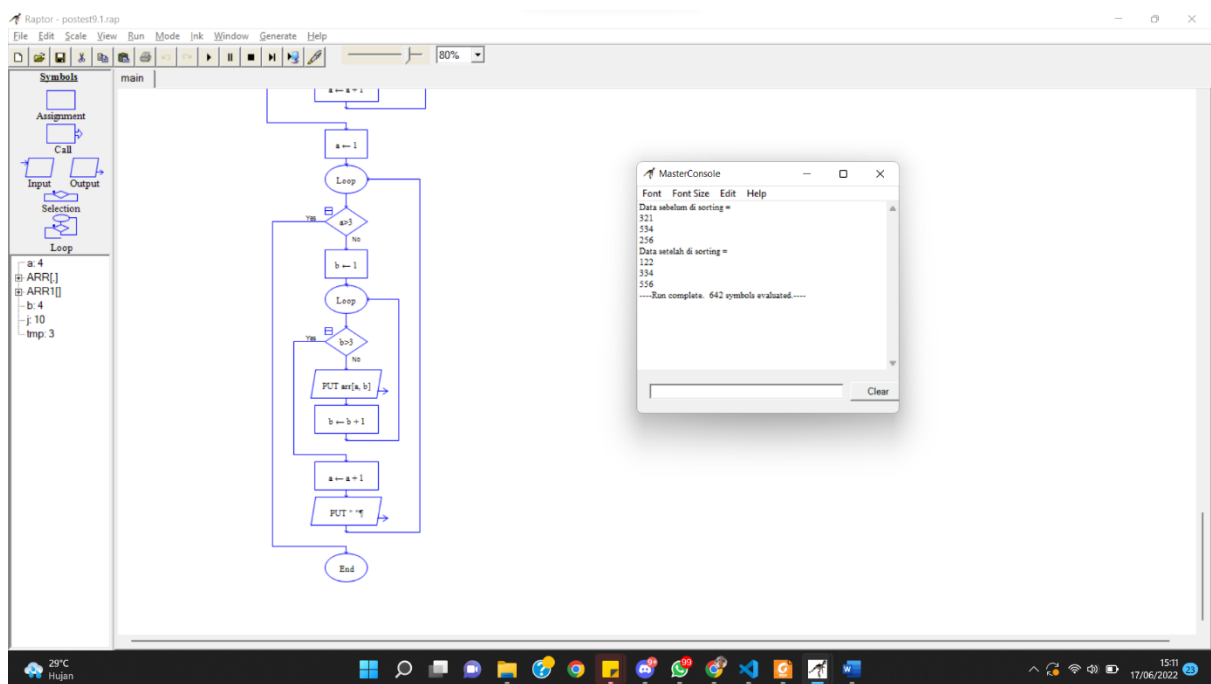
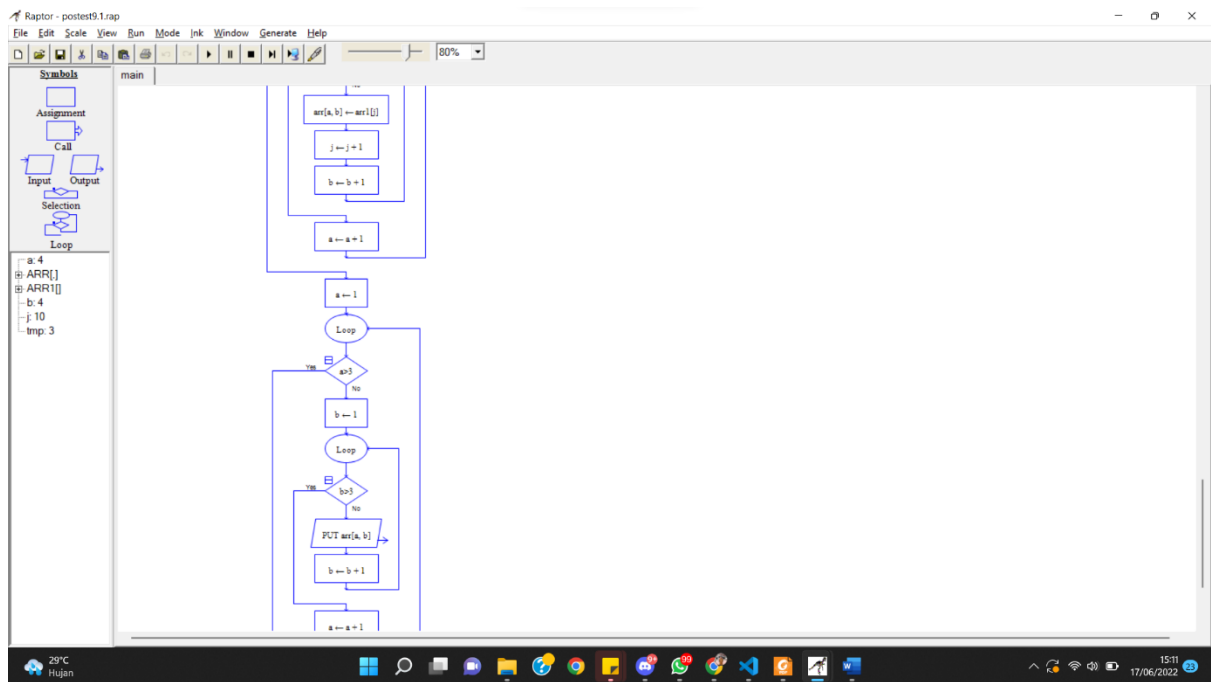
Kelas : C

## Laporan Postest Praktikum ALPRO

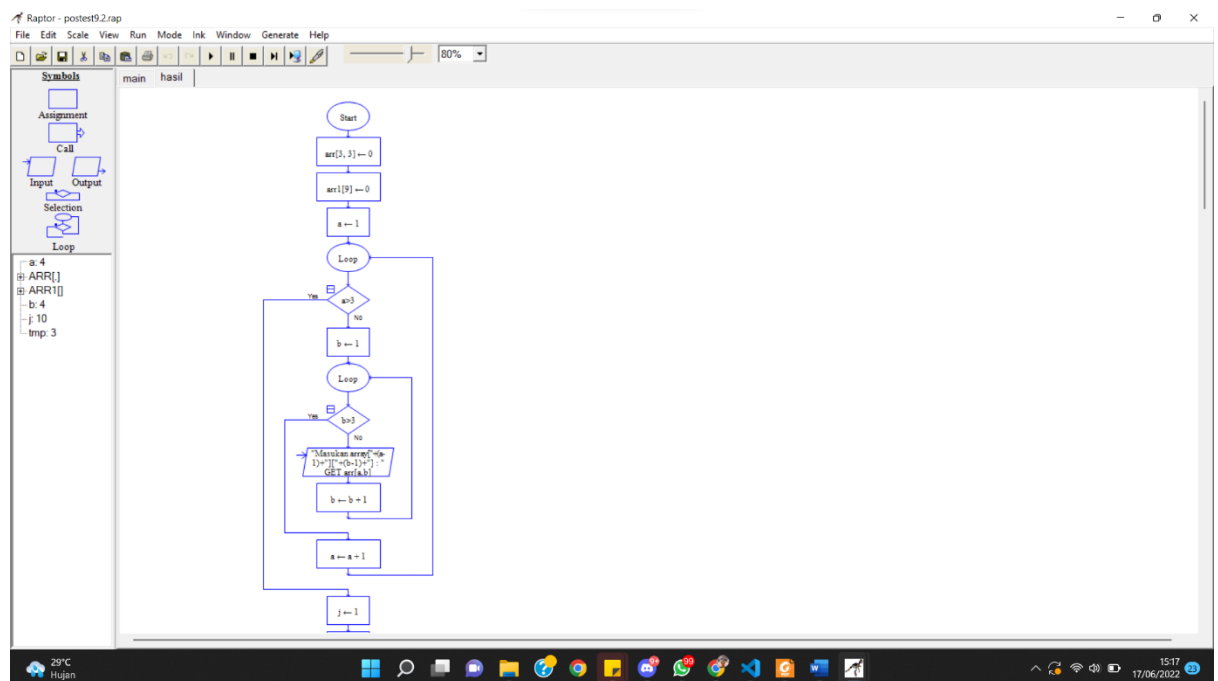
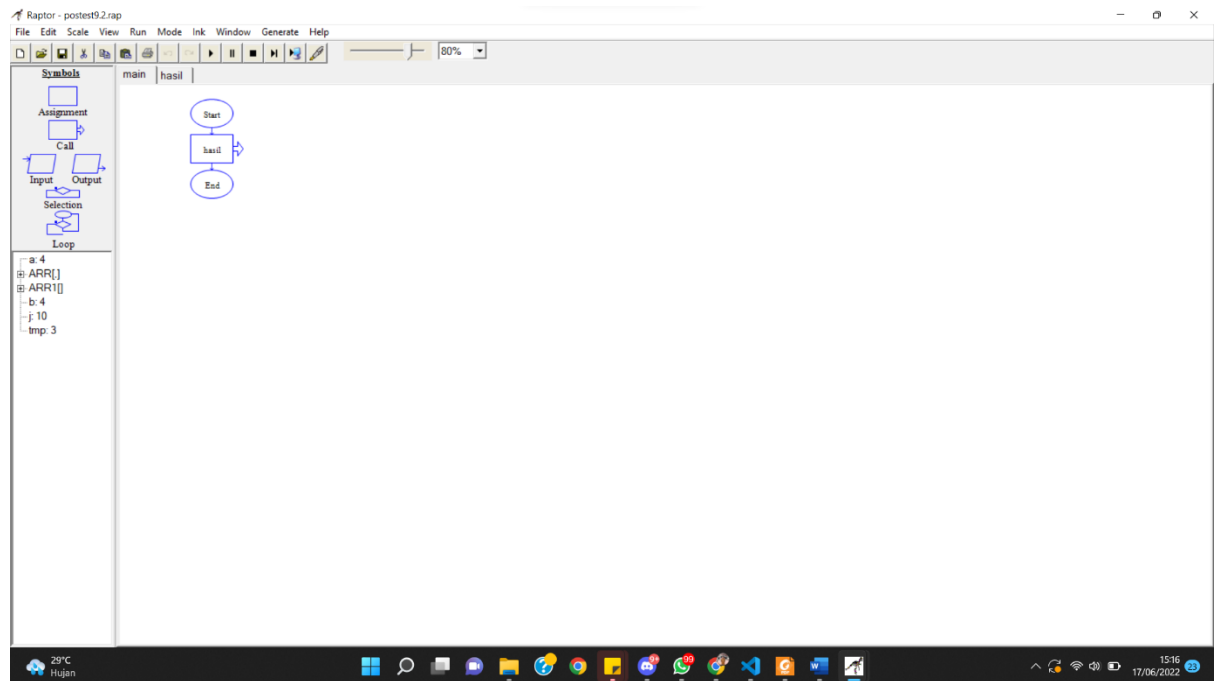
1.

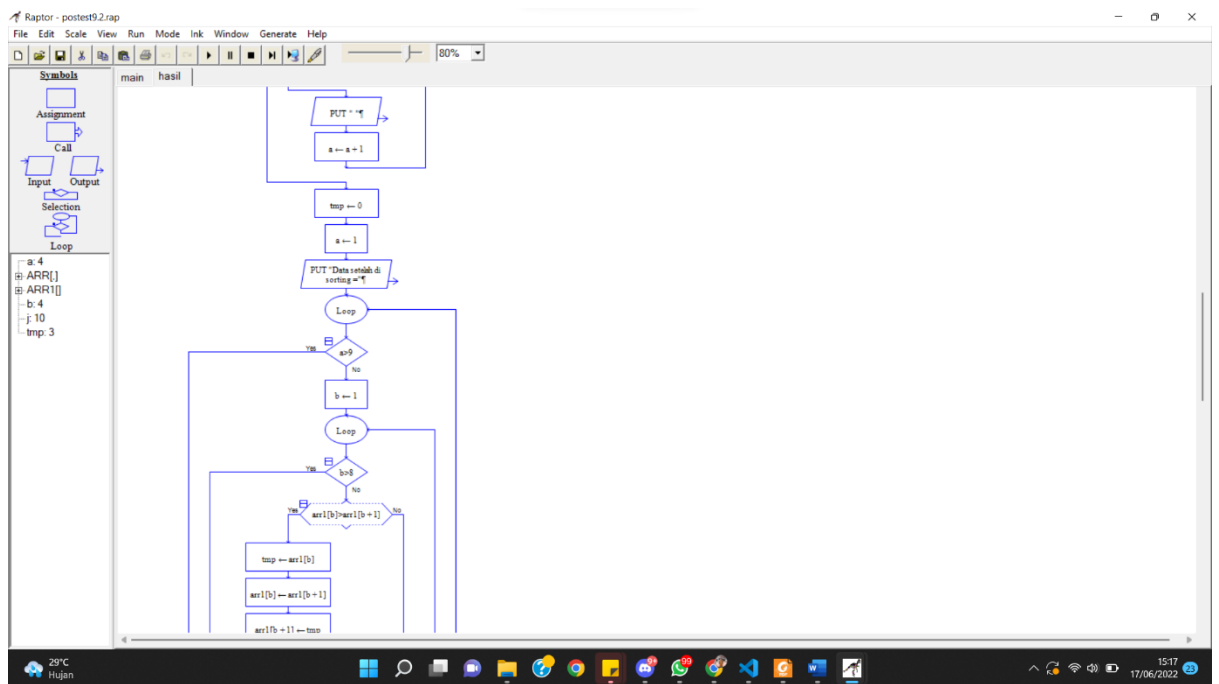
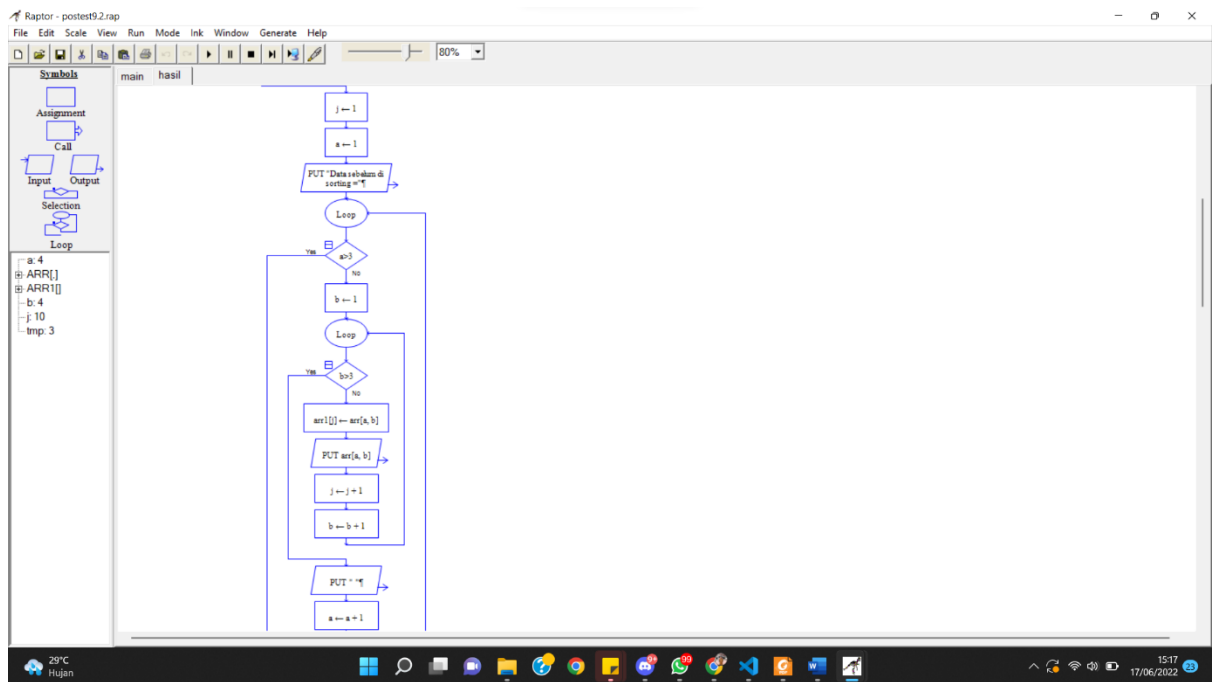


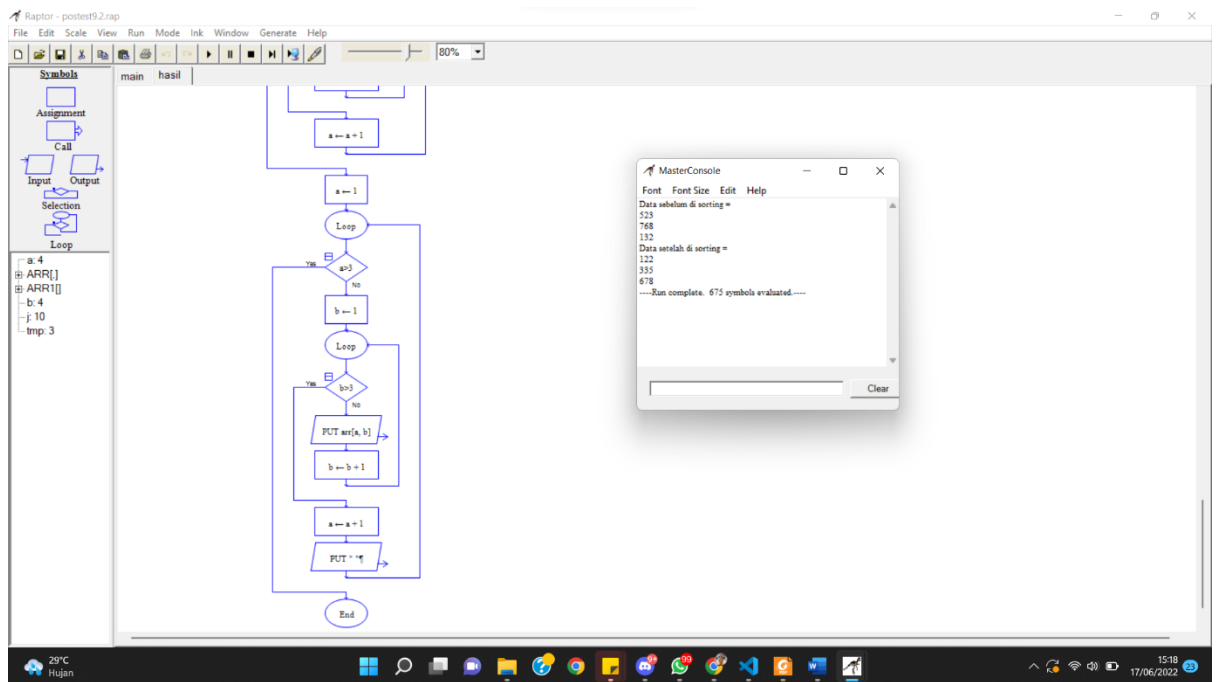




## 2. Memakai Sub program







### 3. Konversi flowchart ke cpp

The Visual Studio Code window shows the C++ code corresponding to the flowchart. The code is as follows:

```

1 #include <iostream>
2 #include <string>
3 using namespace std;
4 int main()
5 {
6     int kol, bar, j, i, bar2, temp;
7     int arr2 [50];
8     int arr [50][50];
9
10    cout << "Jumlah baris: ";
11    cin >> bar;
12    cout << "Jumlah kolom: ";
13    cin >> kol;
14    i = 1;
15
16    while (i <= bar)
17    {
18        j = 1;
19        while (j <= kol)
20        {
21            cout << "Data [" << i << ", " << j << "] = ";
22            cin >> arr[i][j];
23            j = j + 1;
24        }
25        i = i + 1;
26        cout << "Data Baris: " << endl;
27        i = 1;
28        while (i <= bar)
29        {
30            j = 1;
31            while (j <= kol)
32            {
33                cout << arr[i][j] << " ";
34                j = j + 1;
35            }
36            cout << " " << endl;
37            i = i + 1;
38        }
39        bar2 = 1;
40    }
41 }

```

The terminal window shows the output of the program:

```

PS D:\SEMESTER 2\PRAKTIKUM ALPRO\Laporan Praktikum\minggu 9> cd "d:\SEMESTER 2\PRAKTIKUM ALPRO\Laporan Praktikum\minggu 9\postest"
; if ($?) { g++ main.cpp -o main }; if ($?) { .\main }
Jumlah baris: 3
Jumlah kolom: 3
Data [1,1] = 5
Data [1,2] = 4
Data [1,3] = 2
Data [2,1] = 2
Data [2,2] = 5
Data [2,3] = 3
Data [3,1] = 6
Data [3,2] = 5
Data [3,3] = 3
Data Awal:
5 4 2
2 5 3
6 5 3
Data setelah diurutkan:
2 2 3
3 4 5
5 5 6
PS D:\SEMESTER 2\PRAKTIKUM ALPRO\Laporan Praktikum\minggu 9> postes
t>

```

```
File Edit Selection View Go Run Terminal Help
main.cpp - minggu 9 - Visual Studio Code

C++ main1.cpp C++ main.cpp U X
posttest > C++ main.cpp > ...
35     i = i+1;
36 }
37     bar2 = 1;
38     i = 1;
39     while (i(i>bar)){
40         j = 1;
41         while (i(j>kol)){
42             arr2[bar2] = arr[i][j];
43             bar2 = bar2+1;
44             j = j+1;
45         }
46         i = i+1;
47     }
48     temp = 0;
49     i = 1;
50     while (i(i>bar*kol)){
51         j = i+1;
52         while (i(j>bar*kol)){
53             if (arr2[i]>arr2[j]){
54                 temp = arr2[i];
55                 arr2[i] = arr2[j];
56                 arr2[j] = temp;
57             }
58         }
59         j = j+1;
60     }
61     i = i+1;
62 }
63     bar2 = 1;
64     i = 1;
65     while (i(i>bar)){
66         j = 1;
67         while (i(j>kol)){
68             arr[i][j] = arr2[bar2];
69             bar2 = bar2+1;
70             j = j+1;
71         }
72     }
73     i = i+1;
74 }
75     cout << "Data setelah diurutkan: " << endl;
76     i = 1;
77     while (i(i>bar)){
78         j = 1;
79         while (i(j>kol)){
80             cout << arr[i][j]<< " ";
81             j = j+1;
82         }
83         cout << " " << endl;
84         i = i+1;
85     }
86     return 0;
87 }
```

Windows PowerShell  
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https://aka.ms/PSWindows

```
PS D:\SEMESTER 2\PRAKTIKUM ALPRO\Laporan Praktikum\minggu 9> cd "d
:\SEMESTER 2\PRAKTIKUM ALPRO\Laporan Praktikum\minggu 9\posttest\"
; If ($?) { g++ main.cpp -o main }; If ($?) { .\main }
Jumlah baris: 3
Jumlah kolom: 3
Data [1,1] = 5
Data [1,2] = 4
Data [1,3] = 2
Data [2,1] = 2
Data [2,2] = 5
Data [2,3] = 3
Data [3,1] = 6
Data [3,2] = 5
Data [3,3] = 3
Data Awal:
5 4 2
2 5 3
6 5 3
Data setelah diurutkan:
2 2 3
3 4 5
5 5 6
PS D:\SEMESTER 2\PRAKTIKUM ALPRO\Laporan Praktikum\minggu 9\postes
t> }
```

```
File Edit Selection View Go Run Terminal Help
main.cpp - minggu 9 - Visual Studio Code

C++ main1.cpp C++ main.cpp U X
posttest > C++ main.cpp > main()
54     temp = arr2[i];
55     arr2[i] = arr2[j];
56     arr2[j] = temp;
57 }
58 else{
59 }
60 j = j+1;
61 }
62 i = i+1;
63 }
64 bar2 = 1;
65 i = 1;
66 while (i(i>bar)){
67     j = 1;
68     while (i(j>kol)){
69         arr[i][j] = arr2[bar2];
70         bar2 = bar2+1;
71         j = j+1;
72     }
73     i = i+1;
74 }
75     cout << "Data setelah diurutkan: " << endl;
76     i = 1;
77     while (i(i>bar)){
78         j = 1;
79         while (i(j>kol)){
80             cout << arr[i][j]<< " ";
81             j = j+1;
82         }
83         cout << " " << endl;
84         i = i+1;
85     }
86     return 0;
87 }
```

Windows PowerShell  
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```
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Data [2,3] = 3
Data [3,1] = 6
Data [3,2] = 5
Data [3,3] = 3
Data Awal:
5 4 2
2 5 3
6 5 3
Data setelah diurutkan:
2 2 3
3 4 5
5 5 6
PS D:\SEMESTER 2\PRAKTIKUM ALPRO\Laporan Praktikum\minggu 9\postes
t> }
```

