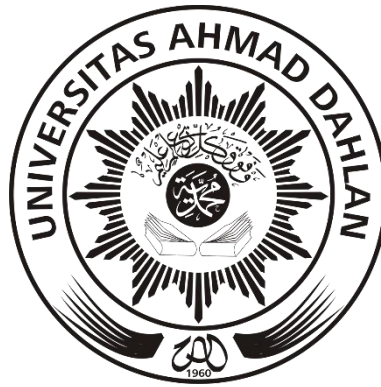


LAPORAN
ALGORITMA PEMORGRAMAN

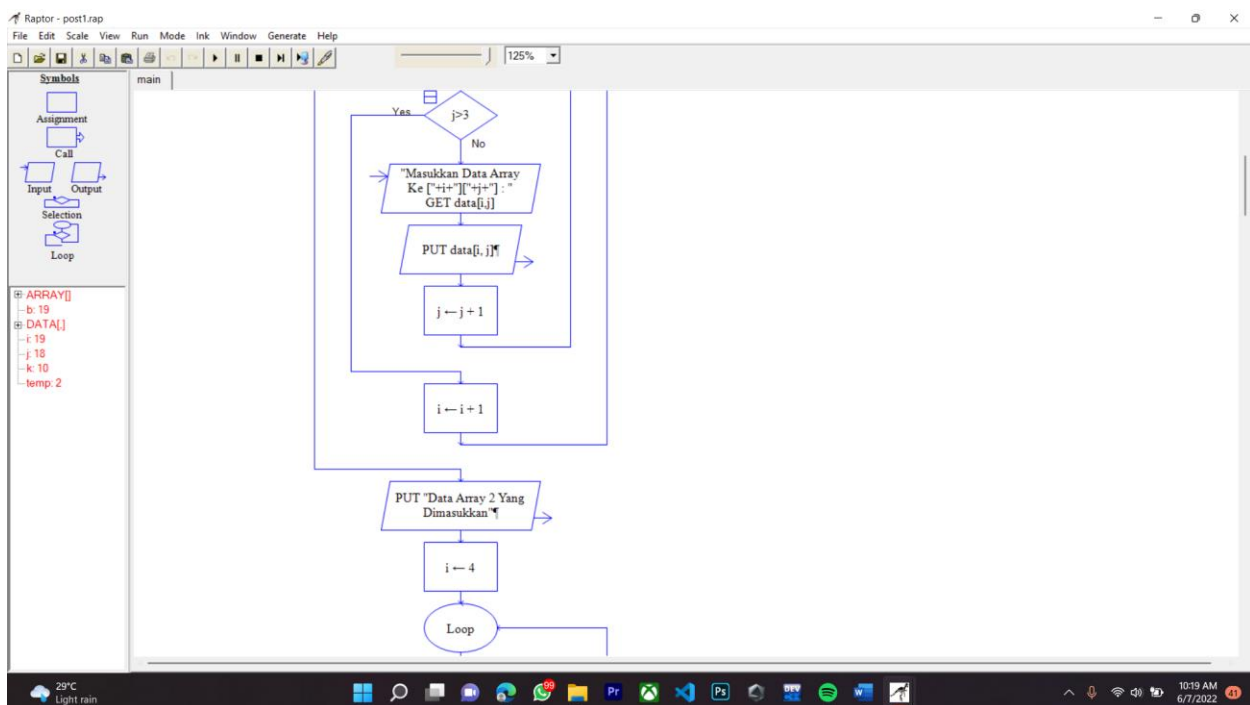
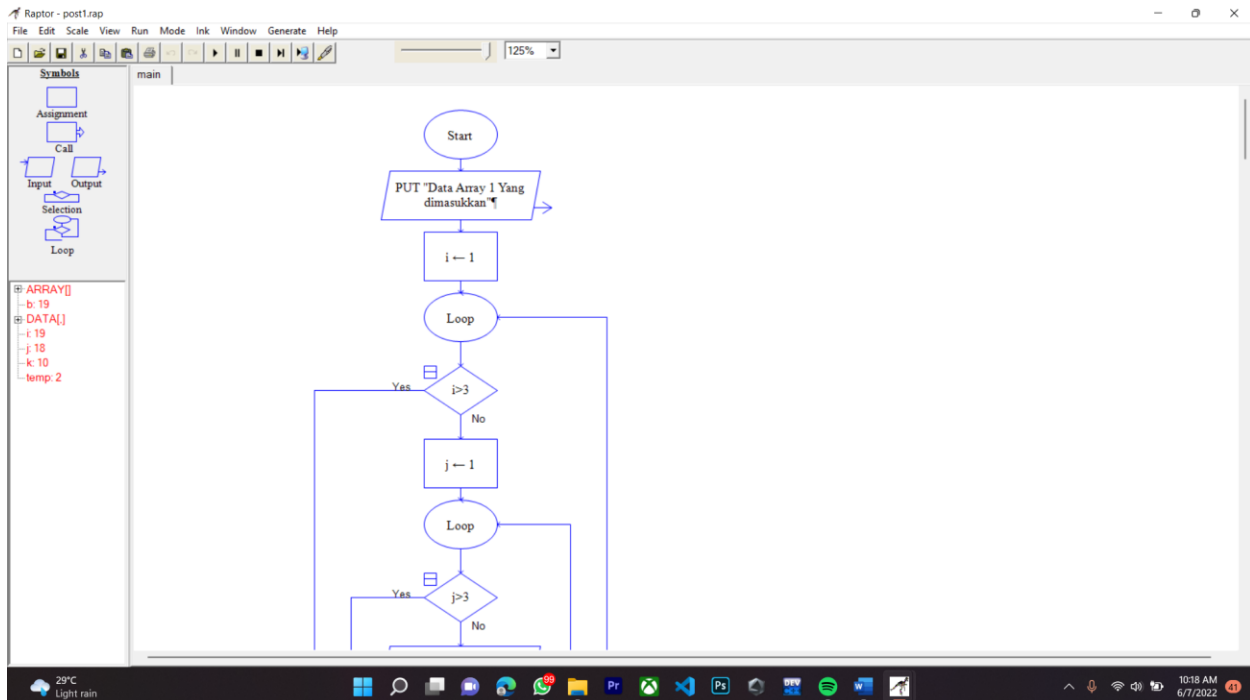


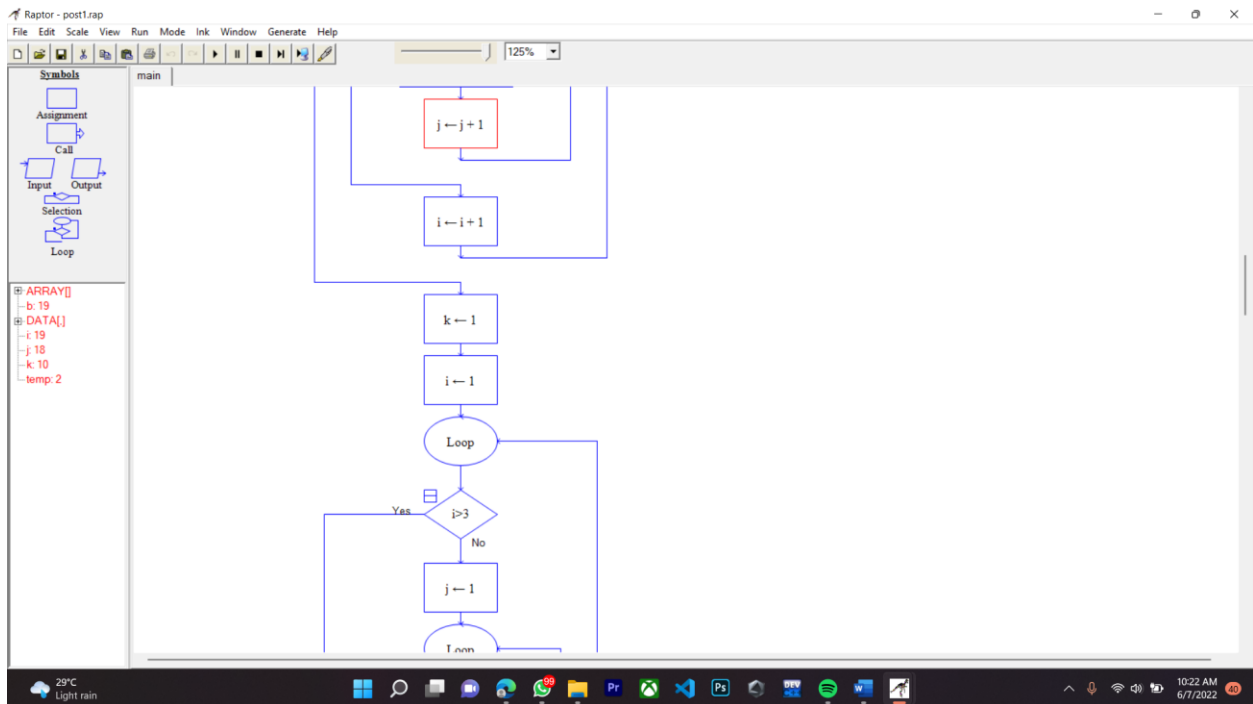
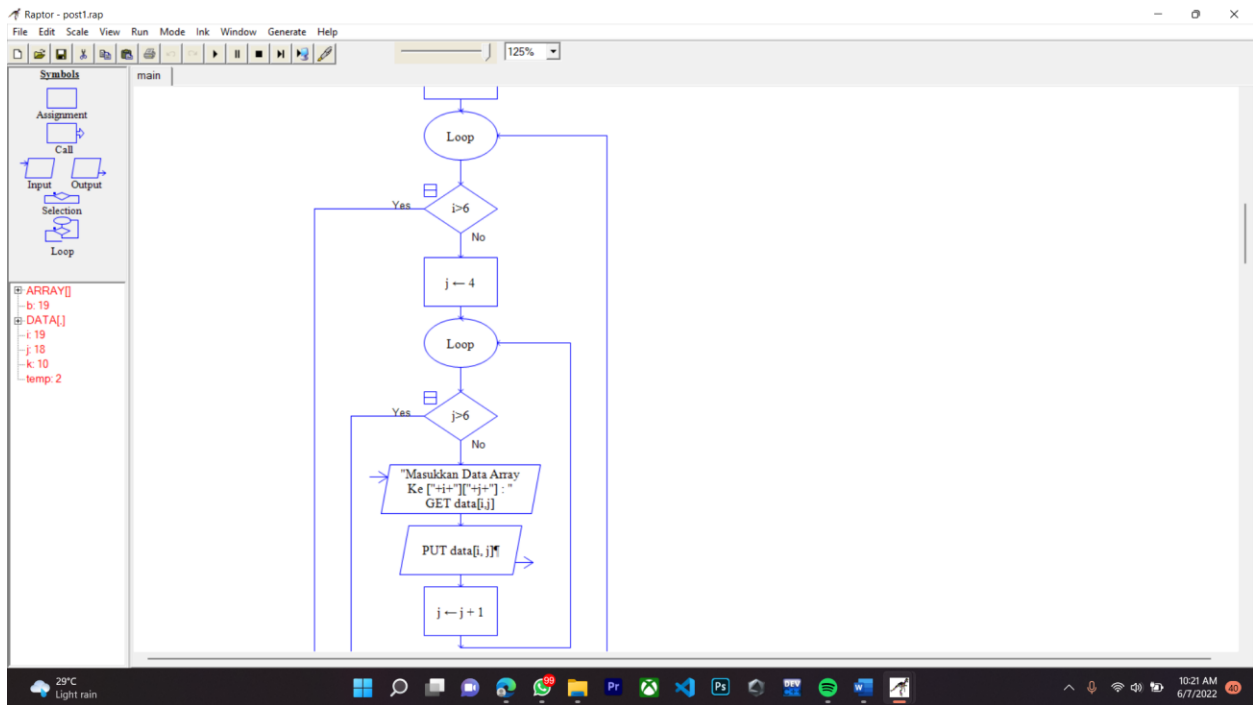
DISUSUN OLEH
RIFAL FEBIYAN (2100018345)
SLOT SELASA 13.30 – KELAS G

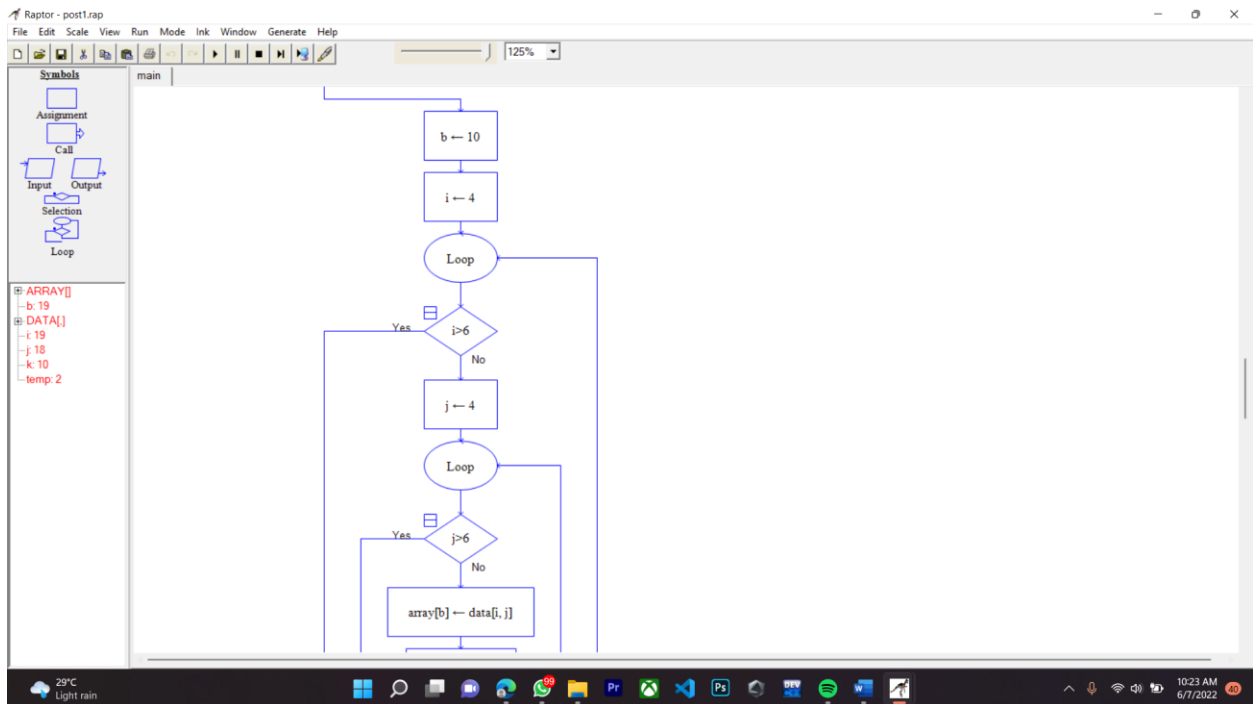
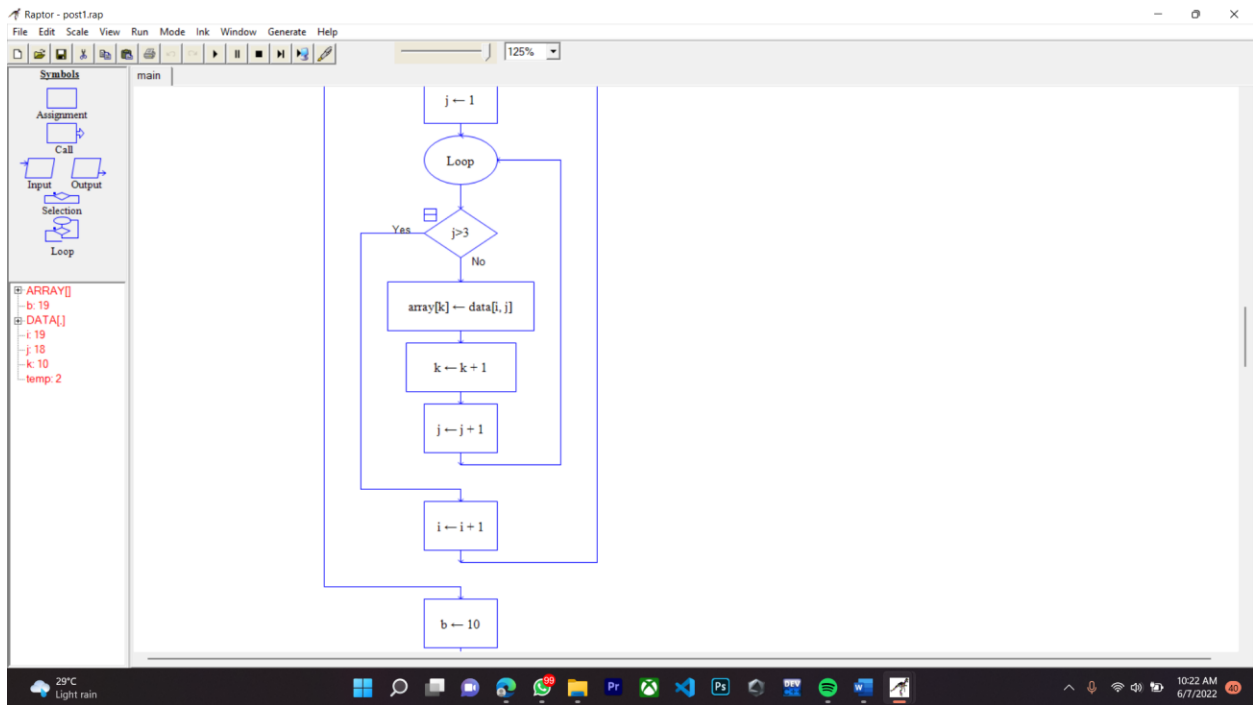
PROGRAM STUDI INFORMATIKA FAKULTAS
TEKNOLOGI INDUSTRI
UNIVERSITAS AHMAD DAHLAN
TAHUN AJARAN 2021/2022

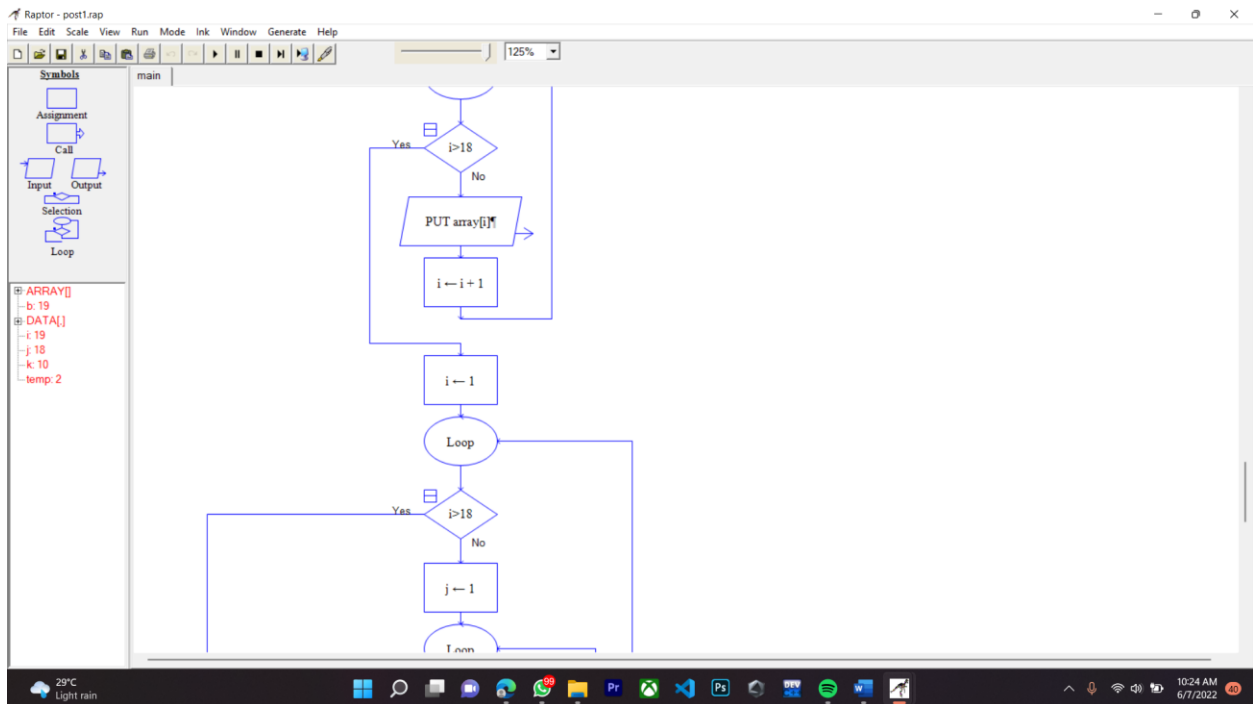
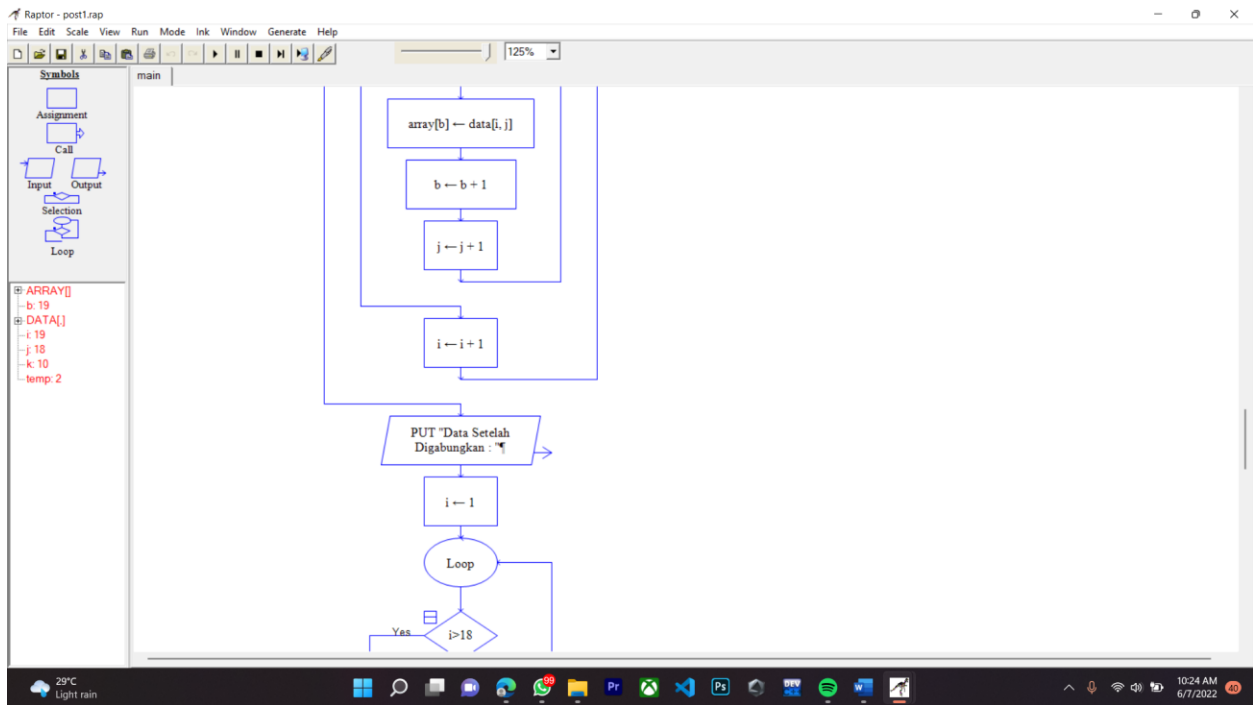
POSTEST PRAKTIKUM 8 : ARRAY 2 DIMENSI

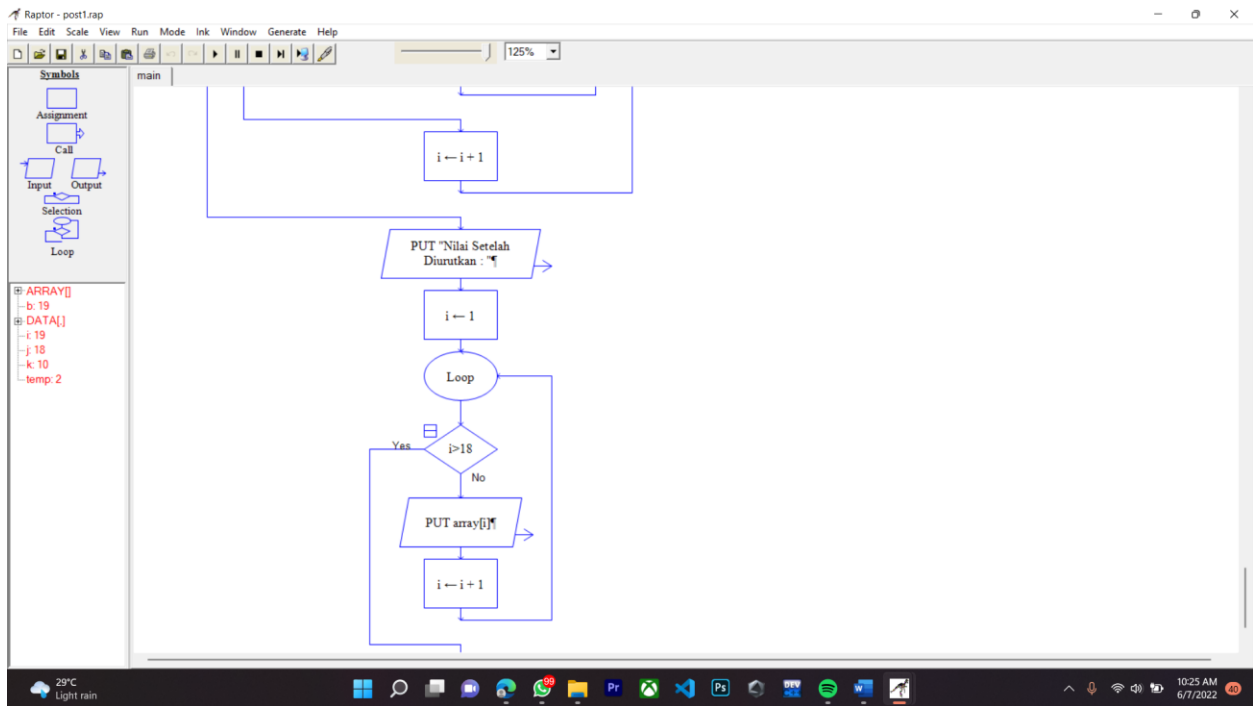
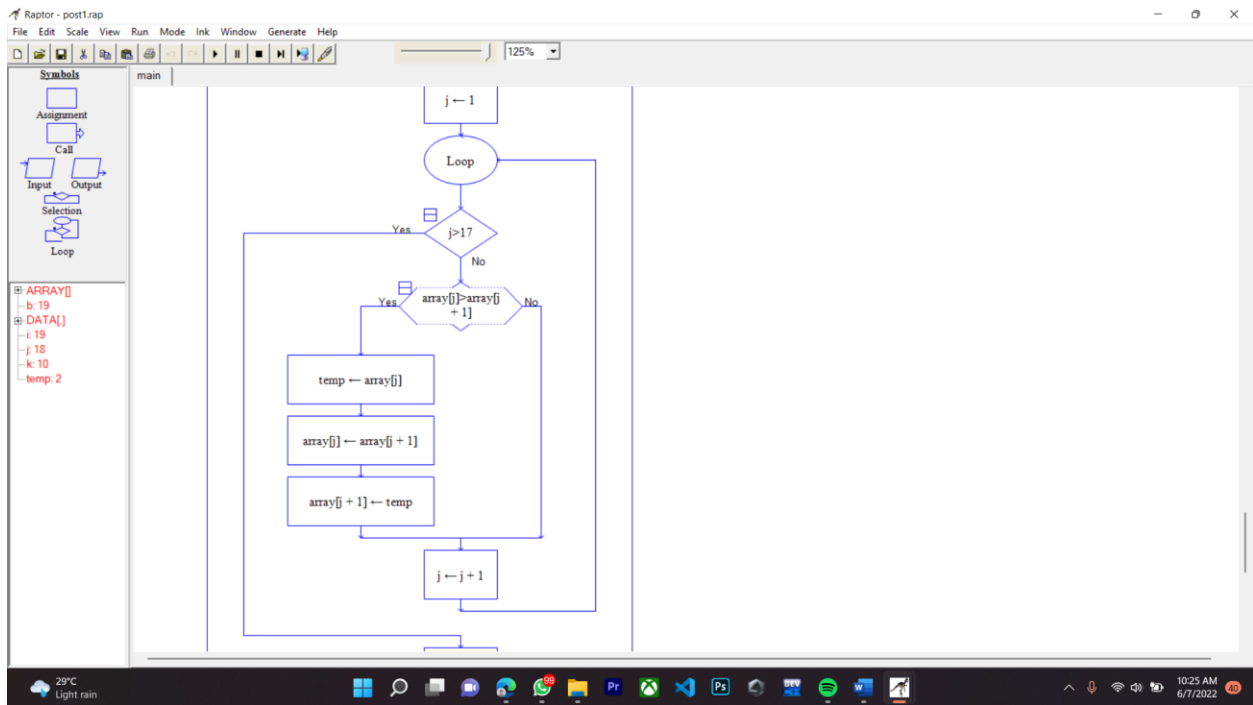
1. Buat lah flowchart untuk mengetahui 2 buah array 2 dimensi 3x3 dan gabungkan 2 array tersebut menjadi satu dimensi kemudian lakukan penyortiran (gunakan algoritma yang anda sukai) di mulai dari yang terkecil. Buatlah algoritma hingga program C++nya.

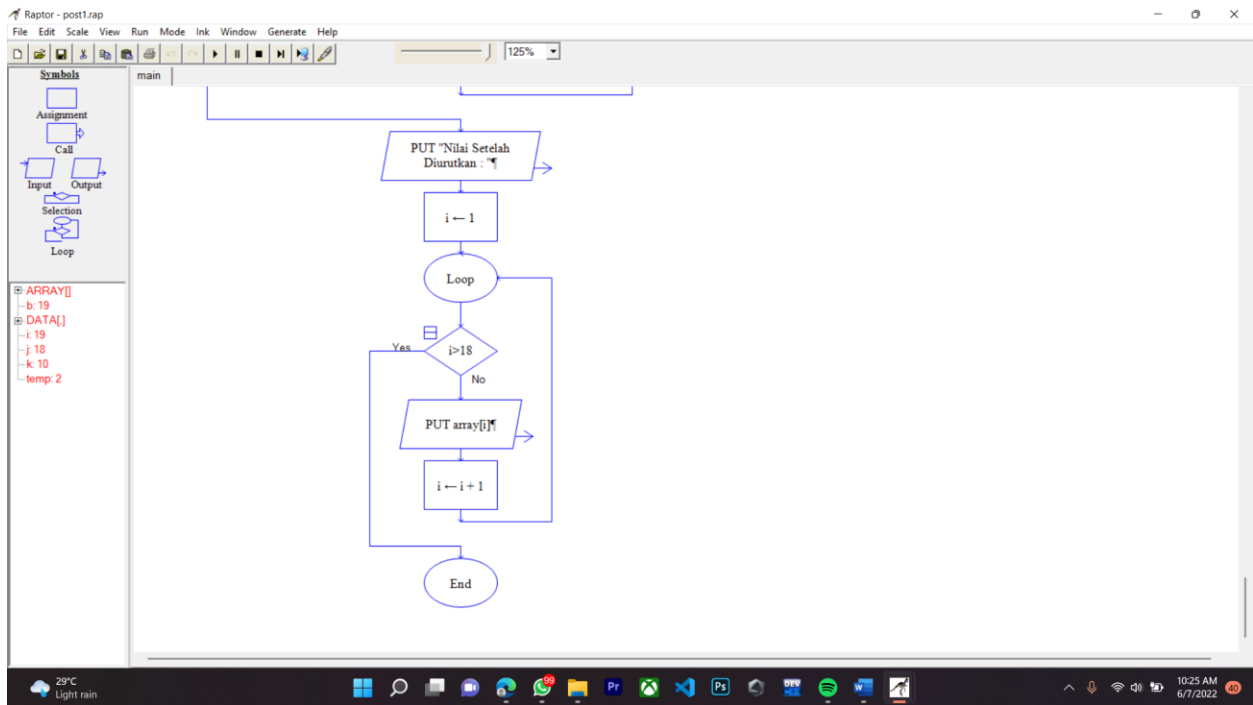




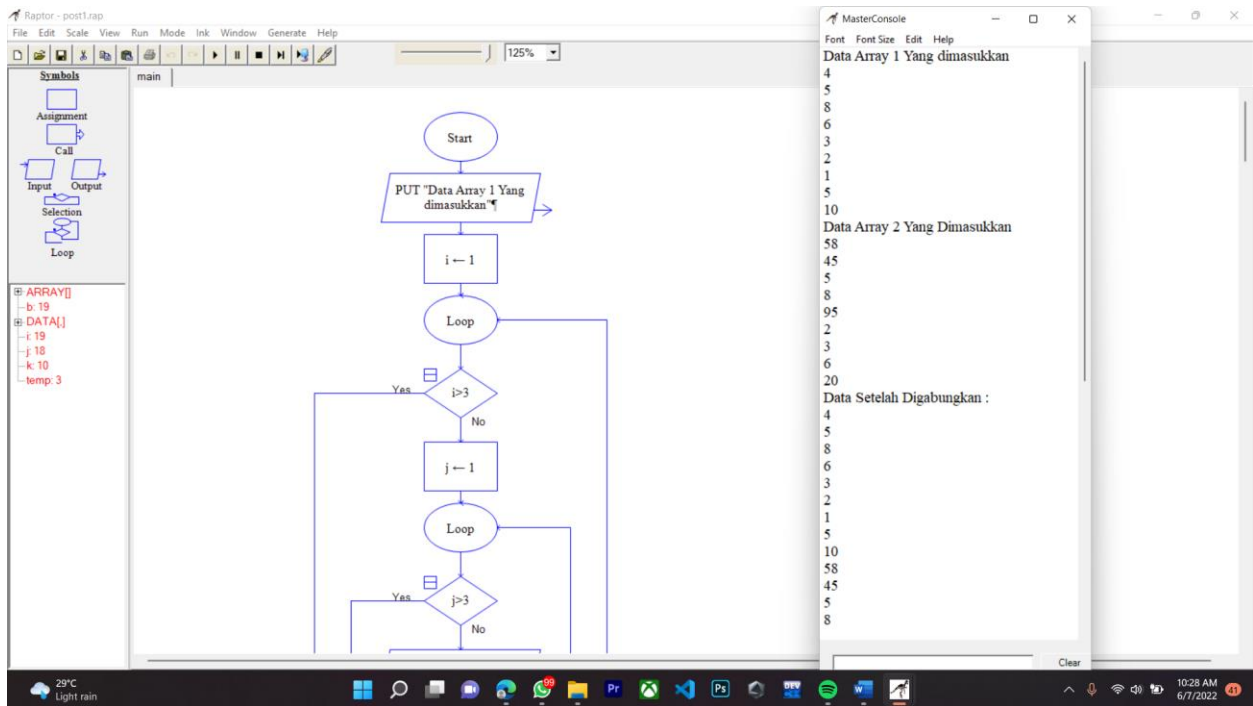


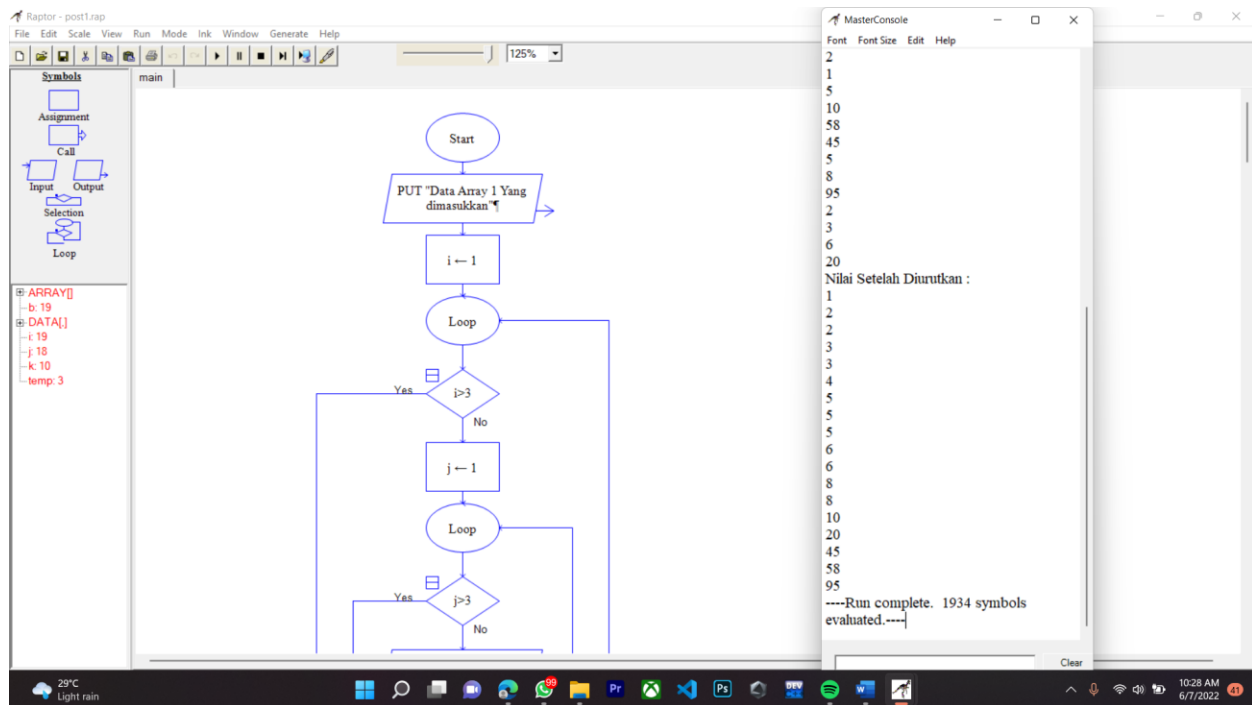






Output ➔

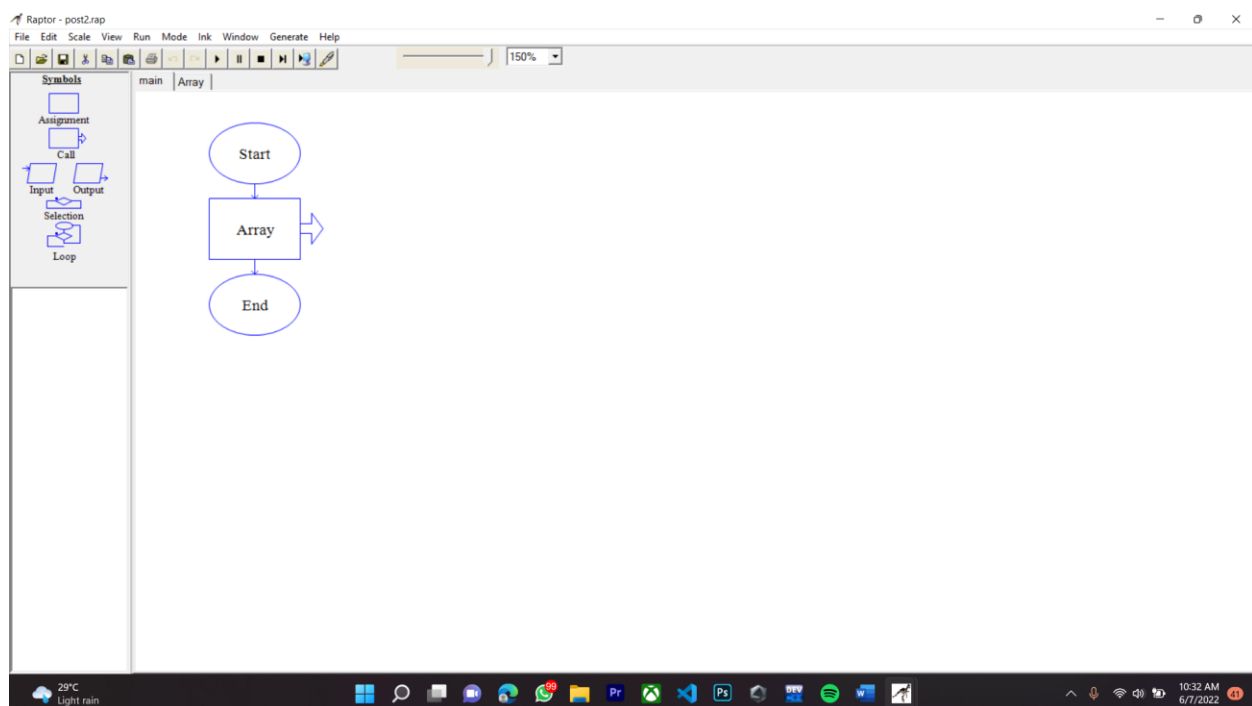




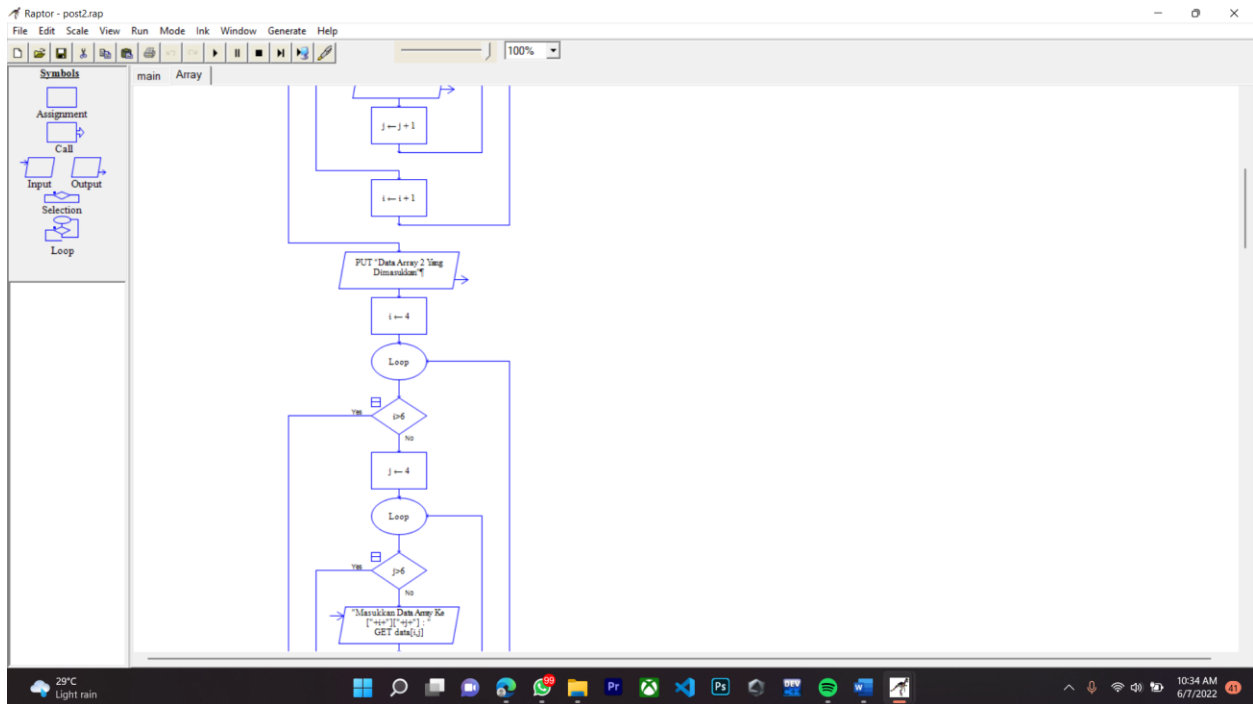
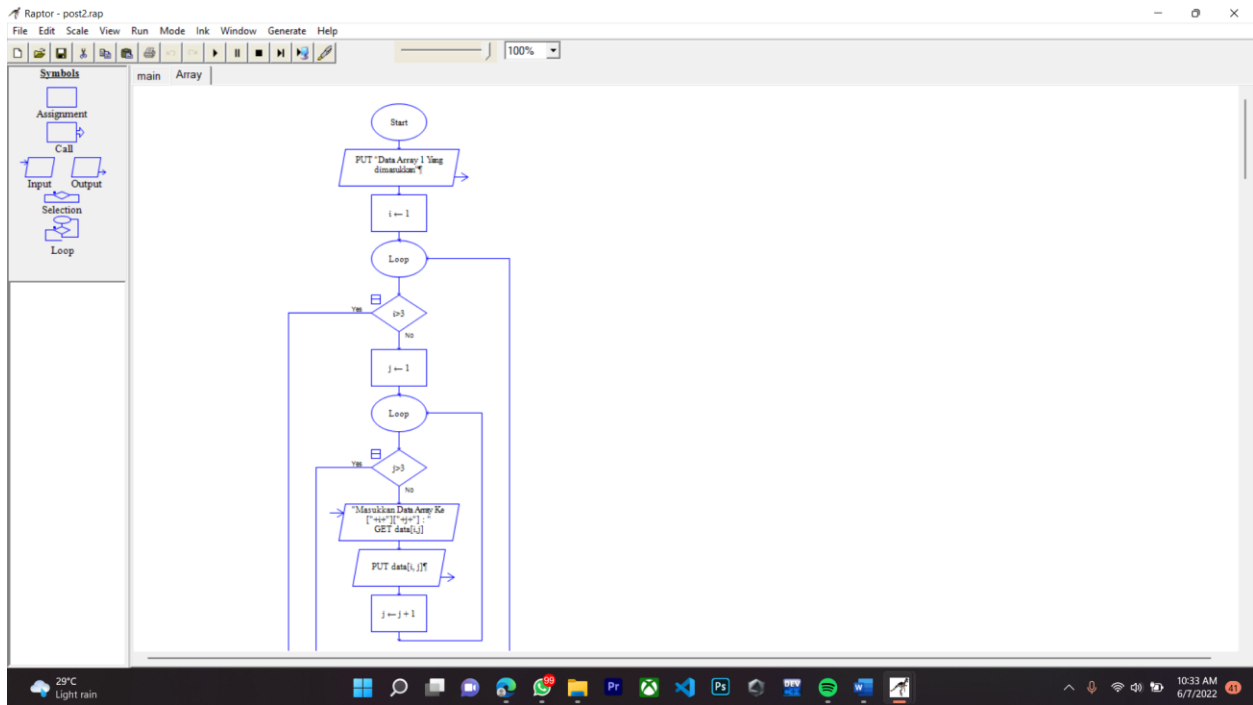
2. Seperti nomor 1, gunakan subprogram dalam flowchart untuk mengetahui 2 buah array 2 dimensi 3x3 dan gabungkan 2 array tersebut menjadi satu dimensi kemudian lakukan penyortiran (gunakan algoritma yang anda sukai) di mulai dari yang terkecil. Buatlah algoritma hingga program C++nya.

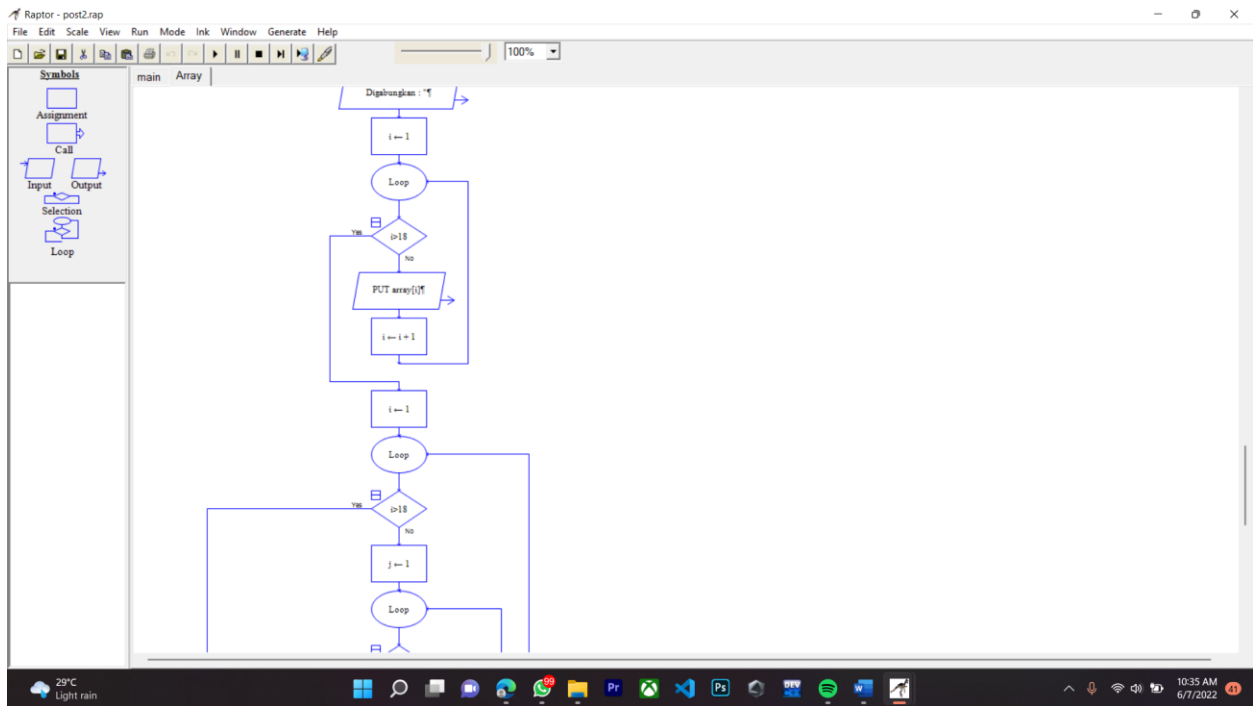
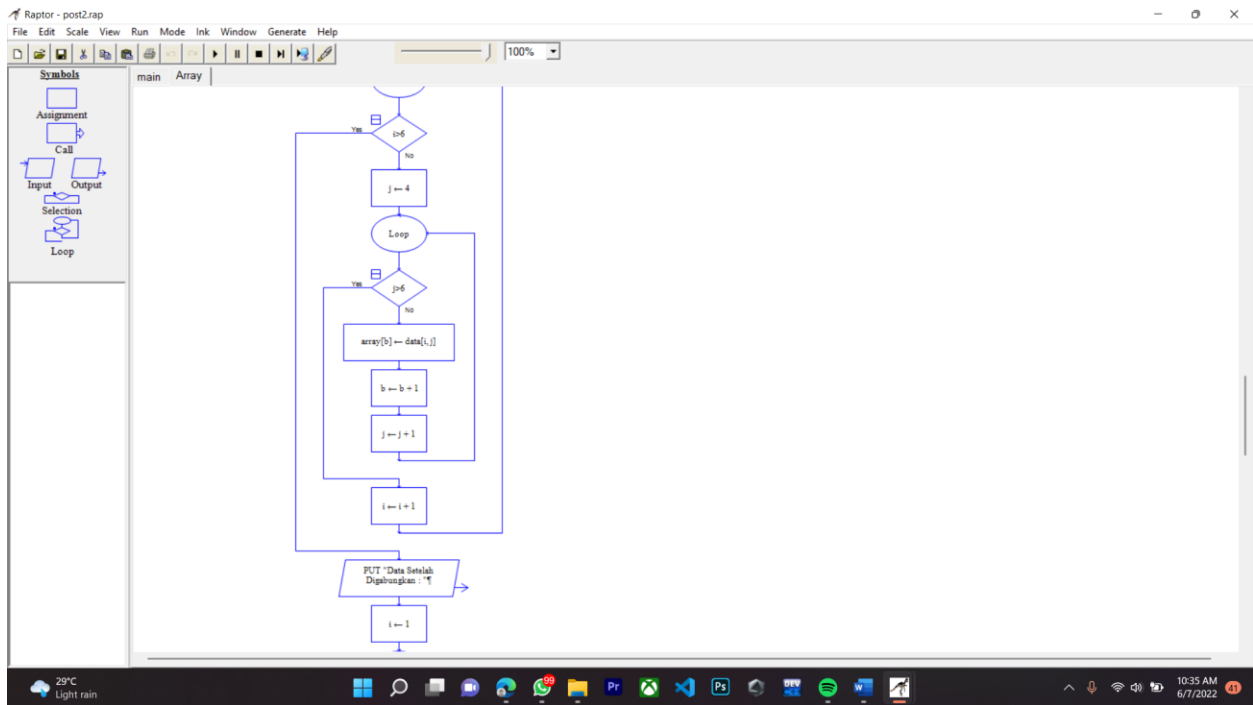
Flowchart →

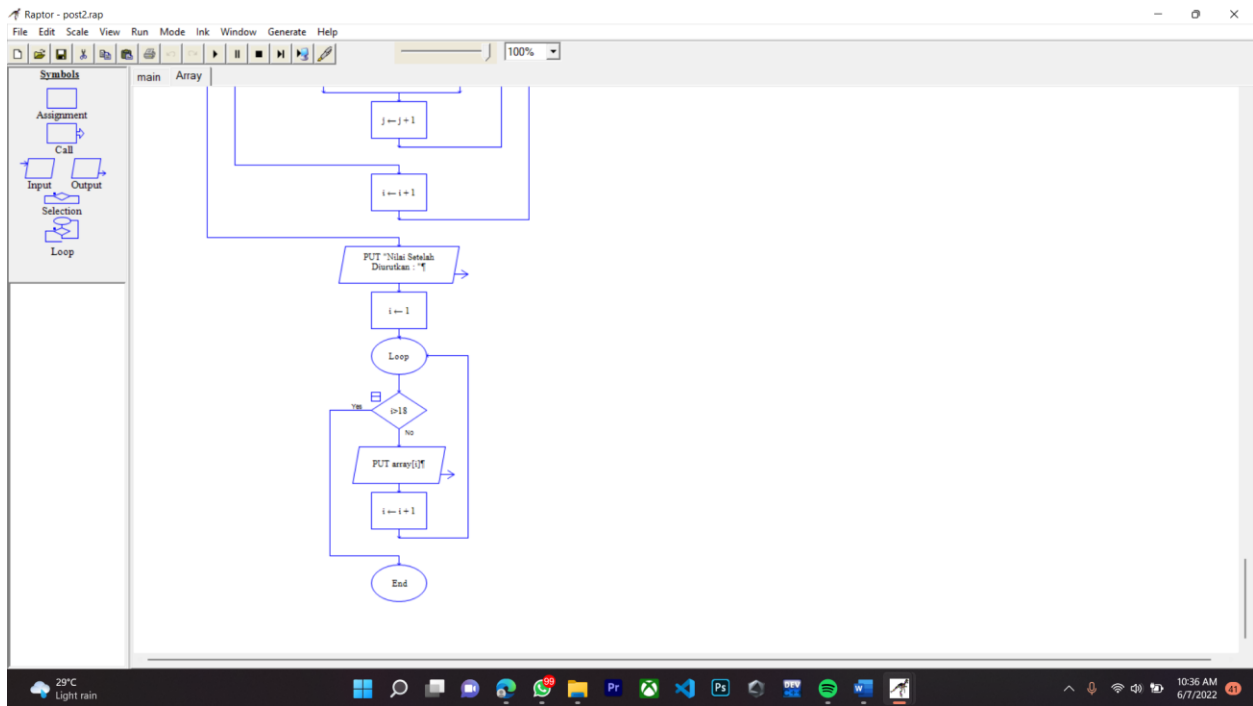
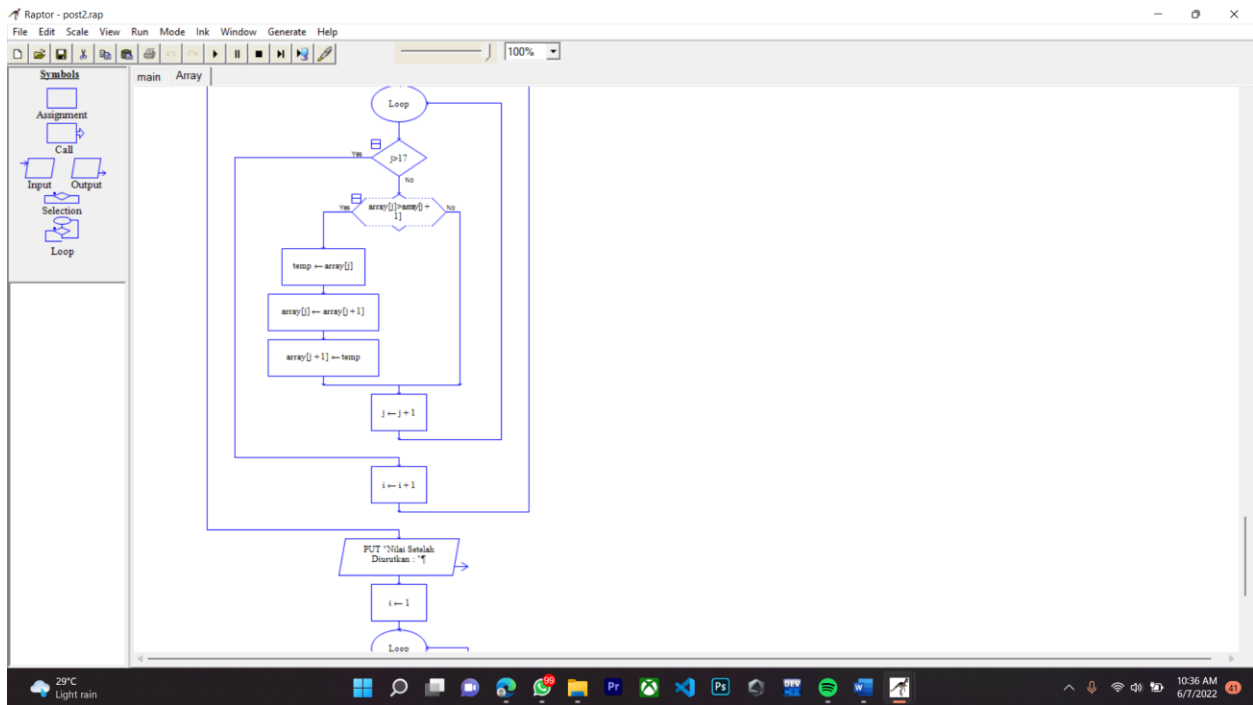
⇒ main



⇒ subprogram







Output →

The Raptor IDE window displays a flowchart with three components: a Start oval, an Array rectangle, and an End oval, connected sequentially. The left sidebar shows a 'Symbols' list with the following entries: ARRAY[], b: 19, DATA[], i: 19, j: 18, k: 10, and temp: 4. The MasterConsole window on the right shows the following output:

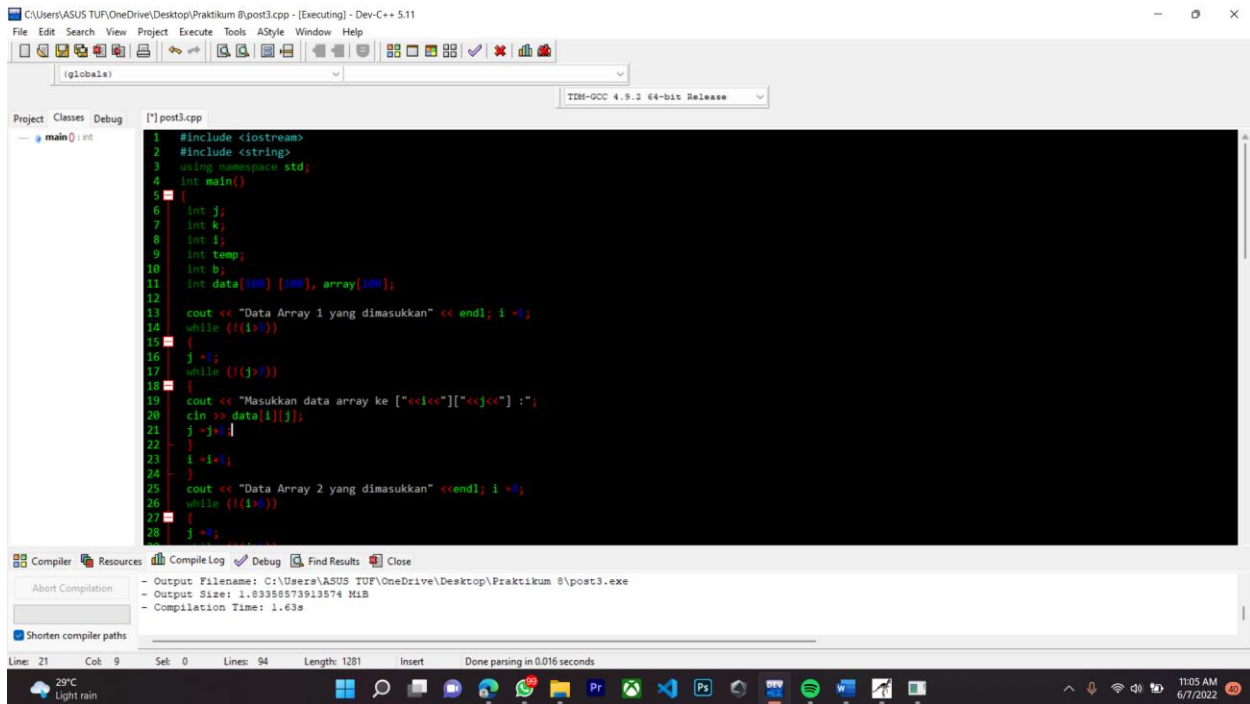
```
Font Font Size Edit Help
Data Array 1 Yang dimasukkan
5
4
7
6
11
15
20
25
13
Data Array 2 Yang Dimasukkan
20
26
30
32
35
40
1
54
22
Data Setelah Digabungkan :
5
4
7
6
11
15
20
25
13
20
26
30
32
```

The Raptor IDE window displays the same flowchart as the first screenshot. The MasterConsole window on the right shows the following output:

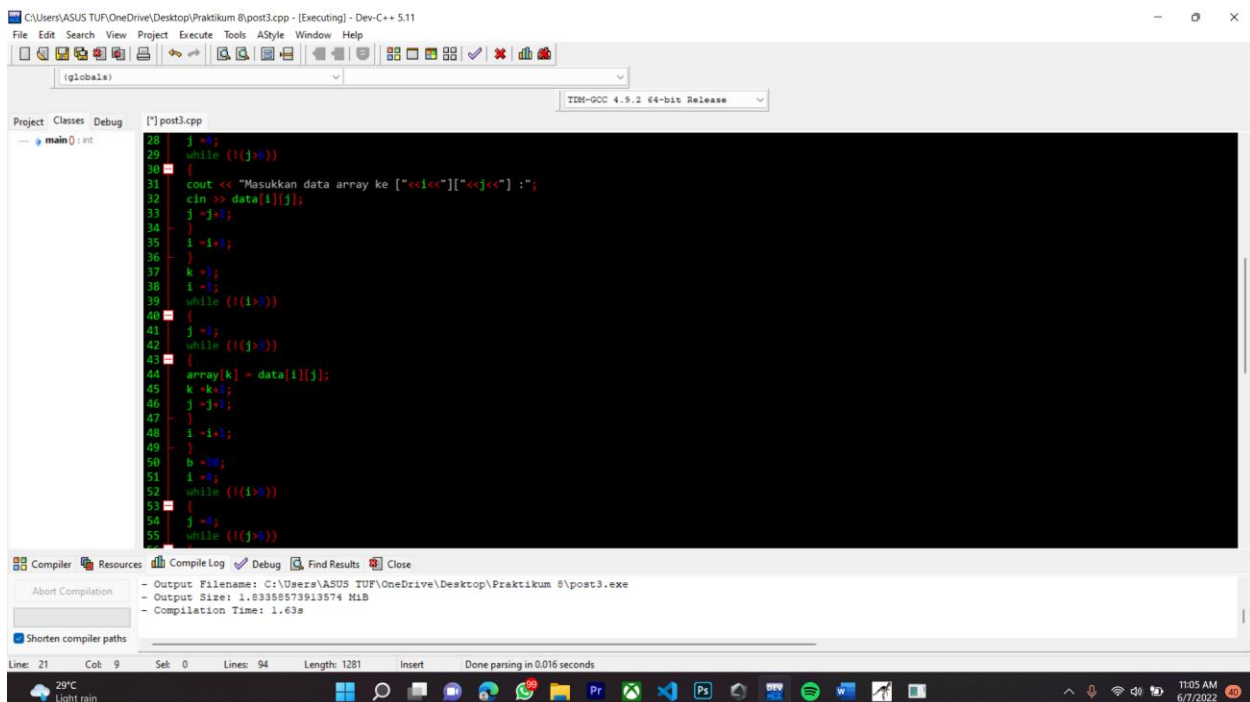
```
Font Font Size Edit Help
15
20
25
13
20
26
30
32
35
40
1
54
22
Nilai Setelah Diurutkan :
1
4
5
6
7
11
13
15
20
20
22
25
26
30
32
35
40
54
----Run complete. 1844 symbols
evaluated.----
```

3. Konversikan hasil dari flowchart nomor 1 dan 2 menjadi program C++.

Nomor 1 :



```
1 #include <iostream>
2 #include <string>
3 using namespace std;
4 int main()
5 {
6     int j;
7     int k;
8     int i;
9     int temp;
10    int b;
11    int data[100][100], array[100];
12
13    cout << "Data Array 1 yang dimasukkan" << endl; i = 1;
14    while (i(i>4))
15    {
16        j = 1;
17        while (j(j>4))
18        {
19            cout << "Masukkan data array ke ["<<i<<"]["<<j<<"] : ";
20            cin >> data[i][j];
21            j = j+1;
22        }
23        i = i+1;
24    }
25    cout << "Data Array 2 yang dimasukkan" << endl; i = 1;
26    while (i(i>4))
27    {
28        j = 1;
```



```
28        j = 1;
29        while (j(j>4))
30        {
31            cout << "Masukkan data array ke ["<<i<<"]["<<j<<"] : ";
32            cin >> data[i][j];
33            j = j+1;
34        }
35        i = i+1;
36    }
37    k = 1;
38    i = 1;
39    while (i(i>4))
40    {
41        j = 1;
42        while (j(j>4))
43        {
44            array[k] = data[i][j];
45            k = k+1;
46            j = j+1;
47        }
48        i = i+1;
49    }
50    b = 10;
51    i = 1;
52    while (i(i>4))
53    {
54        j = 1;
55        while (j(j>4))
```

C:\Users\ASUS TUF\OneDrive\Desktop\Praktikum 8\post3.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(global)

Project Classes Debug [?] post3.cpp

main() : int

```
55 while ((i(j)>0))
56 {
57     array[b] = data[i][j];
58     b = b++;
59     j = j++;
60 }
61 i = i++;
62 }
63 cout<<endl;
64 cout << "Data setelah digabungkan : " ; i = i;
65 while ((i(i)>0))
66 {
67     cout << array[i]; i = i++;
68 }
69 i = i;
70 while ((i(i)>0))
71 {
72     j = j;
73     while ((i(j)>0))
74     {
75         if (array[j]>array[j+1])
76         {
77             temp = array[j];
78             array[j] = array[j+1];
79             array[j+1] = temp;
80         }
81         else
82         {
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

Shorten compiler paths

Output Filename: C:\Users\ASUS TUF\OneDrive\Desktop\Praktikum 8\post3.exe
Output Size: 1.83358573913574 MiB
Compilation Time: 1.63s

Line: 21 Col: 9 Set: 0 Lines: 94 Length: 1281 Insert Done parsing in 0.016 seconds

29°C Light rain 11:05 AM 6/7/2022

C:\Users\ASUS TUF\OneDrive\Desktop\Praktikum 8\post3.cpp - [Executing] - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(global)

Project Classes Debug [?] post3.cpp

main() : int

```
67 cout << array[i]; i = i++;
68 }
69 i = i;
70 while ((i(i)>0))
71 {
72     j = j;
73     while ((i(j)>0))
74     {
75         if (array[j]>array[j+1])
76         {
77             temp = array[j];
78             array[j] = array[j+1];
79             array[j+1] = temp;
80         }
81         else
82         {
83             j = j++;
84         }
85     }
86     i = i++;
87 }
88 cout << "\nNilai setelah diurutkan : " ; i = i;
89 while ((i(i)>0))
90 {
91     cout << array[i] ; i = i++;
92 }
93 return 0;
94 }
```

Compiler Resources Compile Log Debug Find Results Close

Abort Compilation

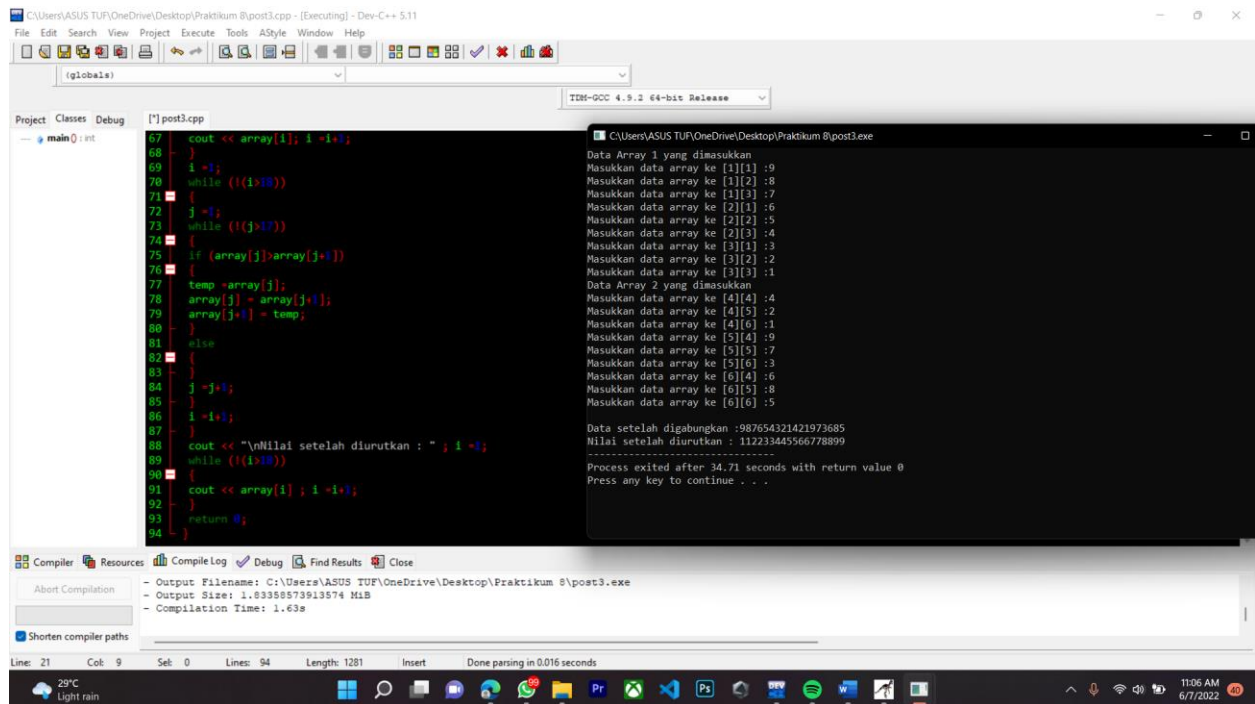
Shorten compiler paths

Output Filename: C:\Users\ASUS TUF\OneDrive\Desktop\Praktikum 8\post3.exe
Output Size: 1.83358573913574 MiB
Compilation Time: 1.63s

Line: 21 Col: 9 Set: 0 Lines: 94 Length: 1281 Insert Done parsing in 0.016 seconds

29°C Light rain 11:05 AM 6/7/2022

Output →



```
1  #include <iostream>
2  #include <string>
3  using namespace std;
4  int main()
5  {
6      int j;
7      int k;
8      int i;
9      int temp;
10     int b;
11     int data[100][100], array[100];
12
13     cout << "Data Array 1 yang dimasukkan" << endl; i=1;
14     while (!(i>3))
15     {
16         j=1;
17         while (!(j>3))
18         {
19             cout << "Masukkan data array ke ["<<i<<"]["<<j<<"] :";
20             cin >> data[i][j];
21             j=j+1;
22         }
23         i=i+1;
24     }
25
26     cout << "Data Array 2 yang dimasukkan" << endl;
27     while (!(i>4))
28     {
29         j=1;
30         while (!(j>5))
31         {
32             cout << "Masukkan data array ke ["<<i<<"]["<<j<<"] :";
33             cin >> array[j];
34             j=j+1;
35         }
36         i=i+1;
37     }
38
39     cout << "Data setelah digabungkan : " << i << endl;
40     while (!(i>3))
41     {
42         cout << array[i] << " "; i=i+1;
43     }
44     return 0;
45 }
```

Output:

```
Data Array 1 yang dimasukkan
Masukkan data array ke [1][1] :9
Masukkan data array ke [1][2] :8
Masukkan data array ke [1][3] :7
Masukkan data array ke [2][1] :6
Masukkan data array ke [2][2] :5
Masukkan data array ke [2][3] :4
Masukkan data array ke [3][1] :3
Masukkan data array ke [3][2] :2
Masukkan data array ke [3][3] :1
Data Array 2 yang dimasukkan
Masukkan data array ke [4][4] :4
Masukkan data array ke [4][5] :2
Masukkan data array ke [4][6] :1
Masukkan data array ke [5][4] :9
Masukkan data array ke [5][5] :7
Masukkan data array ke [5][6] :3
Masukkan data array ke [6][4] :6
Masukkan data array ke [6][5] :8
Masukkan data array ke [6][6] :5

Data setelah digabungkan :987654321421973685
Nilai setelah diurutkan : 112233445566778899
Process exited after 34.71 seconds with return value 0
Press any key to continue . . .
```

Source Code:

```
#include <iostream>
#include <string>
using namespace std;
int main()
{
    int j;
    int k;
    int i;
    int temp;
    int b;
    int data[100][100], array[100];

    cout << "Data Array 1 yang dimasukkan" << endl; i=1;
    while (!(i>3))
    {
        j=1;
        while (!(j>3))
        {
            cout << "Masukkan data array ke ["<<i<<"]["<<j<<"] :";
            cin >> data[i][j];
            j=j+1;
        }
        i=i+1;
    }

    cout << "Data Array 2 yang dimasukkan" << endl;
    while (!(i>4))
    {
        j=1;
        while (!(j>5))
        {
            cout << "Masukkan data array ke ["<<i<<"]["<<j<<"] :";
            cin >> array[j];
            j=j+1;
        }
        i=i+1;
    }

    cout << "Data setelah digabungkan : " << i << endl;
    while (!(i>3))
    {
        cout << array[i] << " "; i=i+1;
    }
    return 0;
}
```



```

cout << "Data Array 2 yang dimasukkan" << endl; i =4;
while (!(i>6))
{
j =4;
while (!(j>6))
{
cout << "Masukkan data array ke ["<<i<<"]["<<j<<"] :";
cin >> data[i][j];
j =j+1;
}
i =i+1;
}
k =1;
i =1;
while (!(i>3))
{
j =1;
while (!(j>3))
{
array[k] = data[i][j];
k =k+1;
j =j+1;
}
i =i+1;
}
b =10;
i =4;
while (!(i>6))
{
j =4;
while (!(j>6))
{
array[b] = data[i][j];
b =b+1;
j =j+1;
}
i =i+1;
}
cout<<endl;
cout << "Data setelah digabungkan :"; i =1;
while (!(i>18))
{
cout << array[i]; i =i+1;
}
i =1;
while (!(i>18))

```

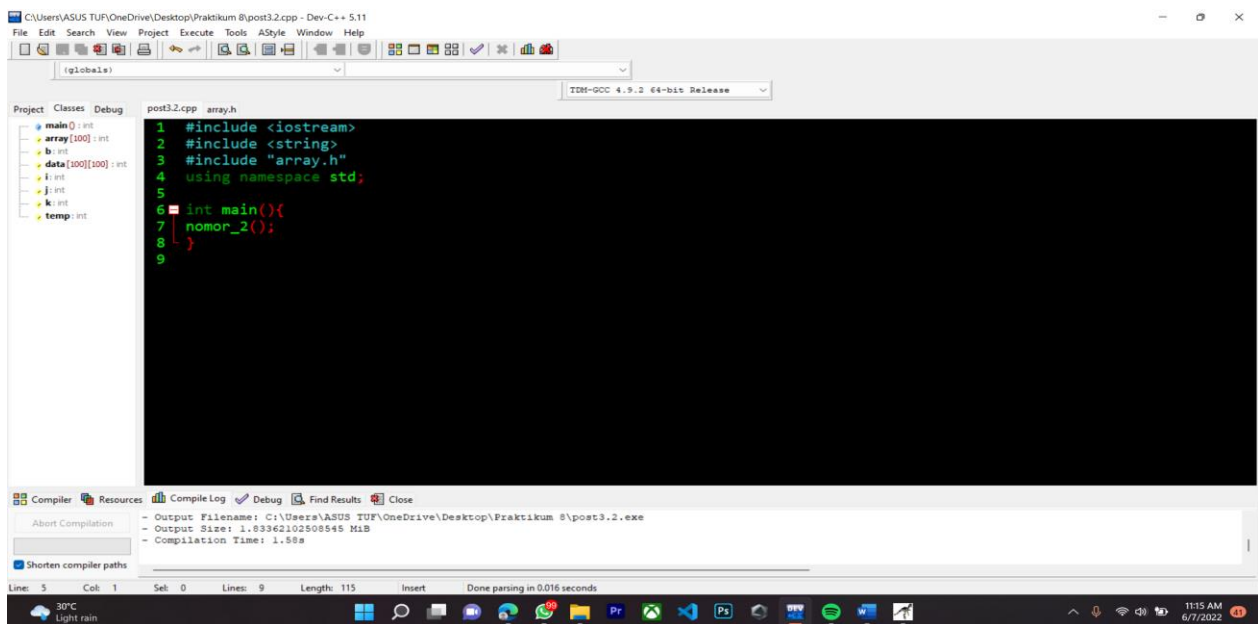
```

{
j=1;
while (!(j>17))
{
if (array[j]>array[j+1])
{
temp =array[j];
array[j] = array[j+1];
array[j+1] = temp;
}
else
{
}
j=j+1;
}
i=i+1;
}
cout << "\nNilai setelah diurutkan : " ; i=1;
while (!(i>18))
{
cout << array[i] ; i=i+1;
}
return 0;
}

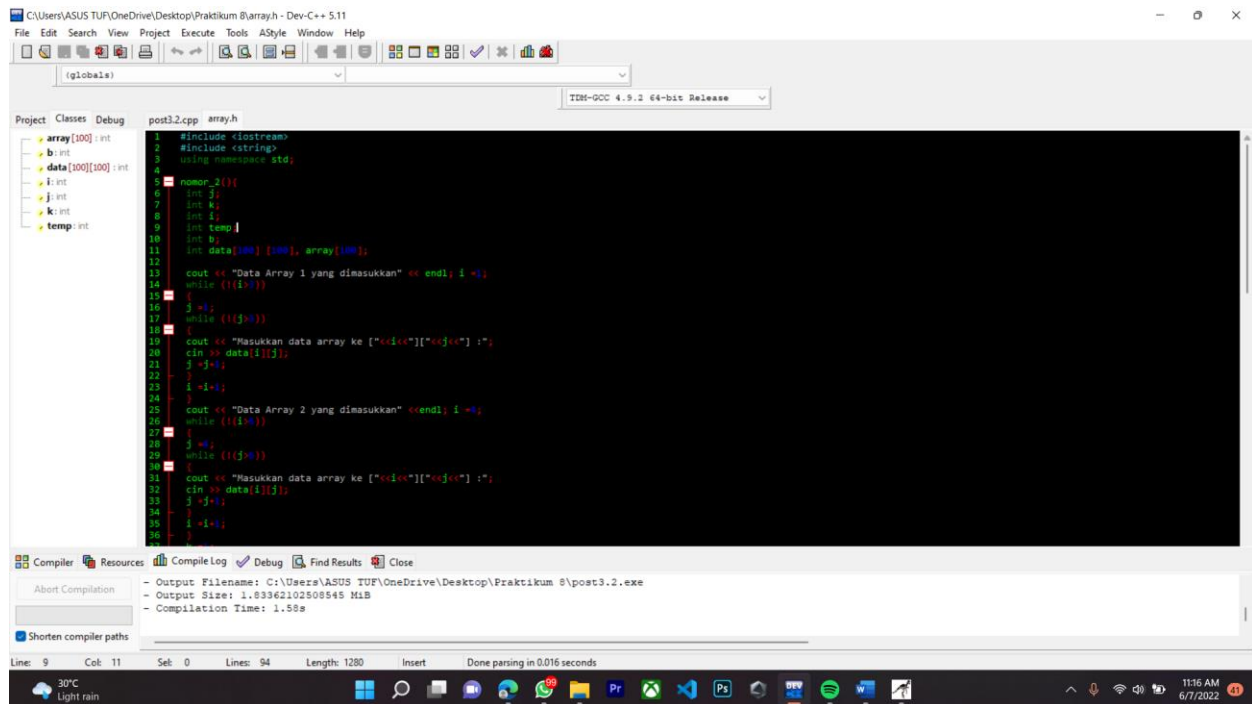
```

Nomor 2 :

⇒ main



⇒ Subprogram



C:\Users\ASUS TUF\OneDrive\Desktop\Praktikum 8\array.h - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

(globals)

post3.2.cpp array.h

Project Classes Debug

array[100] : int
b : int
data[100][100] : int
i : int
j : int
k : int
temp : int

```
1 #include <iostream>
2 #include <string>
3 using namespace std;
4
5 homor_2(){
6     int j;
7     int k;
8     int i;
9     int temp;
10    int b;
11    int data[100][100], array[100];
12
13    cout << "Data Array 1 yang dimasukkan" << endl; i = 0;
14    while (i < 100){
15        j = 0;
16        while (j < 100){
17            cin >> data[i][j];
18            j = j + 1;
19        }
20        cout << "Masukkan data array ke [" << i << "][" << j << " ] : ";
21        cin >> data[i][j];
22        j = j + 1;
23        i = i + 1;
24    }
25    cout << "Data Array 2 yang dimasukkan" << endl; i = 0;
26    while (i < 100){
27        j = 0;
28        while (j < 100){
29            cin >> data[i][j];
30            j = j + 1;
31        }
32        i = i + 1;
33    }
34}
```

Compiler Resources Compile Log Debug Find Results Close

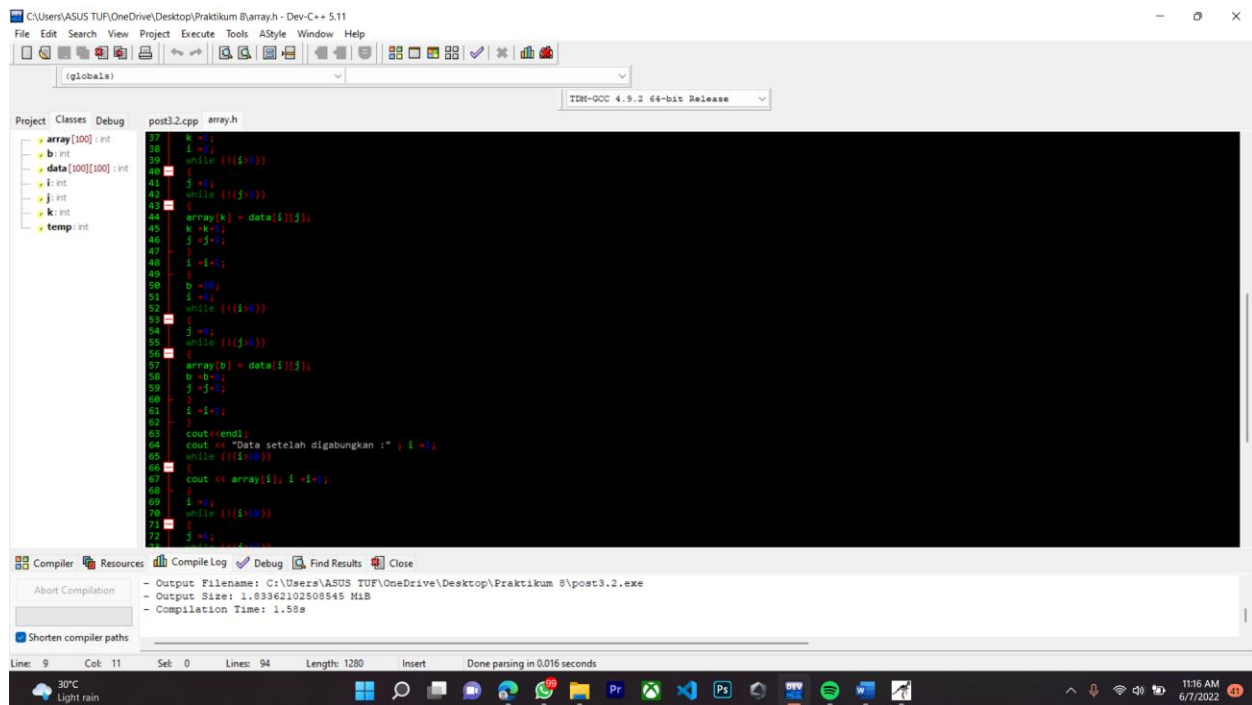
Abort Compilation

Shorten compiler paths

Output Filename: C:\Users\ASUS TUF\OneDrive\Desktop\Praktikum 8\post3.2.exe
Output Size: 1.83362102508545 MiB
Compilation Time: 1.58s

Line: 9 Col: 11 Set: 0 Lines: 94 Length: 1280 Insert Done parsing in 0.016 seconds

30°C Light rain 11:16 AM 6/7/2022



C:\Users\ASUS TUF\OneDrive\Desktop\Praktikum 8\array.h - Dev-C++ 5.11

File Edit Search View Project Execute Tools AStyle Window Help

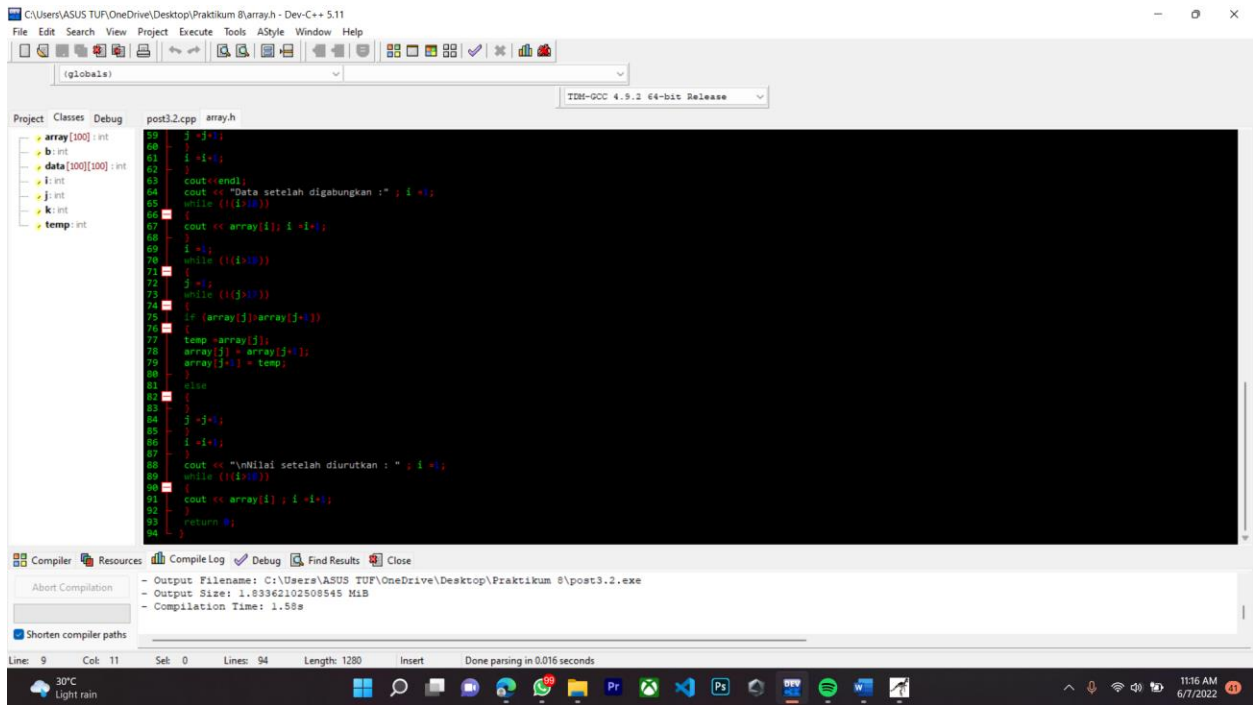
(globals)

post3.2.cpp array.h

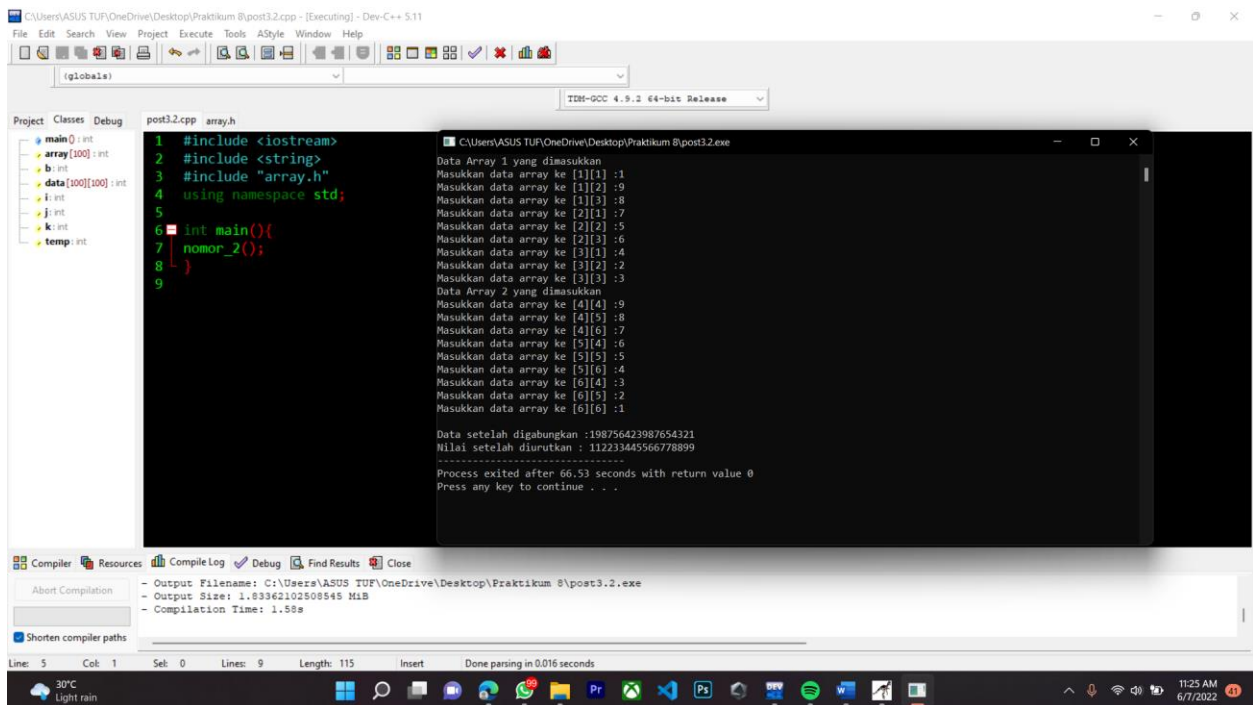
Project Classes Debug

array[100] : int
b : int
data[100][100] : int
i : int
j : int
k : int
temp : int

```
35    i = i + 1;
36    while (i < 100){
37        j = 0;
38        while (j < 100){
39            array[k] = data[i][j];
40            k = k + 1;
41            j = j + 1;
42            i = i + 1;
43        }
44        b = 0;
45        i = 0;
46        while (i < 100){
47            j = 0;
48            while (j < 100){
49                array[b] = data[i][j];
50                b = b + 1;
51                j = j + 1;
52            }
53            i = i + 1;
54        }
55        cout << endl;
56        cout << "Data setelah digabungkan : " << i << endl;
57        while (i < 100){
58            j = 0;
59            while (j < 100){
60                cout << array[i][j]; i = i + 1;
61            }
62            i = i + 1;
63            while (i < 100){
64                j = 0;
65                while (j < 100){
66                    cout << array[i][j]; i = i + 1;
67                }
68                i = i + 1;
69            }
70            while (i < 100){
71                j = 0;
72                while (j < 100){
73                    cout << array[i][j]; i = i + 1;
74                }
75                i = i + 1;
76            }
77            while (i < 100){
78                j = 0;
79                while (j < 100){
80                    cout << array[i][j]; i = i + 1;
81                }
82                i = i + 1;
83            }
84            while (i < 100){
85                j = 0;
86                while (j < 100){
87                    cout << array[i][j]; i = i + 1;
88                }
89                i = i + 1;
90            }
91            while (i < 100){
92                j = 0;
93                while (j < 100){
94                    cout << array[i][j]; i = i + 1;
95                }
96                i = i + 1;
97            }
98            while (i < 100){
99                j = 0;
100               while (j < 100){
101                   cout << array[i][j]; i = i + 1;
102               }
103               i = i + 1;
104           }
105           while (i < 100){
106               j = 0;
107               while (j < 100){
108                   cout << array[i][j]; i = i + 1;
109               }
110               i = i + 1;
111           }
112           while (i < 100){
113               j = 0;
114               while (j < 100){
115                   cout << array[i][j]; i = i + 1;
116               }
117               i = i + 1;
118           }
119           while (i < 100){
120               j = 0;
121               while (j < 100){
122                   cout << array[i][j]; i = i + 1;
123               }
124               i = i + 1;
125           }
126           while (i < 100){
127               j = 0;
128               while (j < 100){
129                   cout << array[i][j]; i = i + 1;
130               }
131               i = i + 1;
132           }
133           while (i < 100){
134               j = 0;
135               while (j < 100){
136                   cout << array[i][j]; i = i + 1;
137               }
138               i = i + 1;
139           }
140           while (i < 100){
141               j = 0;
142               while (j < 100){
143                   cout << array[i][j]; i = i + 1;
144               }
145               i = i + 1;
146           }
147           while (i < 100){
148               j = 0;
149               while (j < 100){
150                   cout << array[i][j]; i = i + 1;
151               }
152               i = i + 1;
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```



Output →



4. Buat lah flowchart dan konversikan ke C++ untuk mengecek matrik bujur sangkar apakah matrik identitas atau bukan.

Matriks bujur sangkar yaitu matriks yang banyak barisnya sama dengan banyak kolomnya. Dan matriks identitas adalah matriks persegi yang elemen-elemen pada diagonal utamanya 1 dan elemen-elemen diluar diagonal utama bernilai 0. Dibawah ini saya mencoba meng-input matriks bujur sangkar dengan isi matriks

```
1 0 1
0 1 0
0 0 1
```

Maka outputnya seperti dibawah ini

