Nama: Muhammad Rizal Nurfirdaus

NIM : 20230810088

Kelas: TINFC-2023-04

## Modul 6

## **Menggunakan Tools Visual Studio Code**

```
1. Analis program di bawah ini :
#include <iostream>
using namespace std;
int matriks [4][4]; int i, j;
int main ()
{
  cout<< "Isi data matriks" << endl;
  for(i=0; i<j; i++)
{
for (j=0; j<i; j++)
{
cout<< "Matriks ["<<i<<"]["<<j<<"]:"; cin>>matriks [i][j];
}
}
cout<<"Hasil data inputan matriks 4*4 :"<<endl;</pre>
for(i=0; i<4; i++)
{
for (j=0; j<4; j++)
{
cout<<matriks [i][j]<<" ";</pre>
}
cout<<endl;
}
}
```

a. Lakukan proses Kompilasi

```
using namespace std;
int matriks [4][4]; int i, j;
int main ()
{
    cout<< "Isi data matriks" << endl;
    for(i=0; i<j; i++)
{
    for (j=0; j<i; j++)
{
     cout<< "Matriks ["<<i<<"]["<<j<<"]:"; cin>>matriks [i][j];
}
}
cout<<"Hasil data inputan matriks 4*4 :"<<endl;
for(i=0; i<4; i++)
{
    for (j=0; j<4; j++)
{
     cout<<matriks [i][j]<<" ";
}
cout<<endl;
}
</pre>
```

## b. Jalankan program diatas dan amati hasilnya

```
#include <iostream>
using namespace std;
int matriks [4][4]; int i, j;
int main ()
{
    cout<< "Isi data matriks" << endl;
    for(i=0; i<j; i++)
{
    for (j=0; j<i; j++)
{
    cout<< "Matriks ["<<i<<"]["<<j<<"]:"; cin>>matriks [i][j];
}
}
cout<< "Hasil data inputan matriks 4*4 :"<<endl;
for(i=0; i<4; i++)
{
    for (j=0; j<4; j++)
{
    cout<<matriks [i][j]<<" ";
}
cout<<endl;
}
cout<<endl;
}
</pre>
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\Muhammad Rizal Nur F> cd "c:\Users\Muhammad Rizal Nur F\OneDrive\文档\Belajar Form\New folder\File tug as\Algo dan Pemrograman\"; if ($?) { g++ tugasmandirim6.cpp -o tugasmandirim6 }; if ($?) { .\tugasmandirim6 }

Isi data matriks
Hasil data inputan matriks 4*4:
0000
0000
0000
PS C:\Users\Muhammad Rizal Nur F\OneDrive\文档\Belajar Form\New folder\File tugas\Algo dan Pemrograman>

②0△0 №0

Ln 7, Col 23 Spaces: 4 UTF-8 CRLF {} C++ Win 32 Q
```

menggunakan i dan j dalam kondisi loop sebelum mereka diinisialisasi, yang dapat menyebabkan perilaku yang tidak terdefinisi.

c. Ubahlah agar matrik dapat diisi secara dinamis

```
#include <iostream>
using namespace std;
int main ()
    int n, m;
    cout << "Masukkan jumlah baris matriks: ";</pre>
    cout << "Masukkan jumlah kolom matriks: ";</pre>
    cin >> m;
    int matriks[n][m];
    int i, j;
    cout << "Isi data matriks" << endl;</pre>
    for(i=0; i<n; i++)
        for (j=0; j<m; j++)
             cout << "Matriks [" << i << "][" << j << "]: ";</pre>
             cin >> matriks[i][j];
         }
    }
    cout << "Hasil data inputan matriks " << n << "*" << m << " :" << endl;</pre>
    for(i=0; i<n; i++)
    {
        for (j=0; j<m; j++)
         {
             cout << matriks[i][j] << " ";</pre>
         cout << endl;</pre>
```

```
return 0;
}
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Lisi data matriks
Matriks [0][0]: 2
Matriks [0][1]: 1
Matriks [0][2]: 4
Matriks [0][3]: 3
Matriks [1][0]: 1
Matriks [1][1]: 2
Matriks [1][2]: 3
Matriks [1][2]: 3
Matriks [1][3]: 4
Hasil data inputan matriks 2*4:
2 1 4 3
1 2 3 4
PS C:\Users\Muhammad Rizal Nur F\OneDrive\文档\Belajar Form\New folder\File tugas\Algo dan Pemrograman>

D 0 △ 0 ※ 0

Ln 24, Col 1 Spaces: 4 UTF-8 CRLF {} C++ Win32 ♀

Ln 24, Col 1 Spaces: 4 UTF-8 CRLF {} C++ Win32 ♀

D □ △ 0 ※ 0
```

3. Buatlah program menggunakan array dimensi 3 dalam membuat tampilan 3 dimensi berbentuk benda

```
#include<iostream>
using namespace std;
int main() {
    int x, y, z;
    int cube[10][10][10] = {
             \{0,0,0,0,0,0,0,0,0,0,0,0\},
             \{0,0,0,1,1,1,1,1,1,1,1,1,1\},
             \{0,0,1,1,1,1,1,1,1,2\},\
             \{0,1,1,1,1,1,1,1,0,2\},\
             \{1,1,1,1,1,1,1,0,0,2\},\
             \{2,0,0,0,0,0,2,0,0,2\},
             \{2,0,0,0,0,0,2,0,0,2\},
             \{2,0,0,0,0,0,2,0,2,0\},
             {2,3,3,3,3,3,2,2,0,0},
             {0,0,0,0,0,0,0,0,0,0,0}
        }
    };
    for (x = 0; x < 10; x++) {
        for (y = 0; y < 10; y++) {
             for (z = 0; z < 10; z++) {
                 if (cube[x][y][z] == 0)
                      cout << " ";
                 else if (cube[x][y][z] == 1)
                      cout << "-";
                 else if (cube[x][y][z] == 2)
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Description of the port of the
```