Contoh Praktikum Algortima dan Pemograman



Nama : Agil Deriansyah Hasan

Nim: 4522210125

Dosen:

Dra.SRI REZEKI CANDRA NURSARI,M.Kom Prak. Algoritma dan Pemrograman - B

S1-Teknik Informatika Fakultas Teknik Universitas Pancasila 2023/2024

```
| Comment | Comm
```

Pseudocode

KAMUS/DEKLARASI VARIABEL

Nilai[3][4]: int agil_i,agil_j: int

ALGORITMA/DESKRISPI

Nilai[3][4] = {{11,22,33,44},{63,11,66,7},{22,28,11,7}}

for (agil_i=0; agil_i < 3; agil_i++)

for (agil_j=0; agil_j<4; agil_j++)

print (nilai[i][j]," ")

end for

ALGORITMA:

- 1. agil_i 0
- 2. agil_j 0
- 3. Nilai[3][4] = {11, 22, 33, 44}; {63, 11, 66, 7}; {22, 28, 11, 7}
- 4. Selama (agil_i < 3), kerjakan baris 5 s.d. 9, kalau tidak baris 10
- 5. Selama (agil_j < 4), kerjakan baris 6 s.d. 8, kalau tidak baris 10
- 6. Mencetak Nilai[agil_i][agil_j]
- 7. Mencetak (" ")
- 8. agil_j agil_j + 1
- 9. agil_i agil_i + 1
- 10. Selesai

Algoritma

- 1. agil_i ← 0
- 2. Agil_j ← 0
- 3. Selama (agil_i < 4)
- 4. Selama (agil j < 4)
- 5. Mencetak nilai variabel agil_i+1
- 6. Mencetak nilai variabel agil_j+1
- 7. Menginput nilai variabel Nilai[agil_i][agil_j]
- 8. Agil_i++
- 9. Agil_j++
- 10. Selama (agil_i < 4),
- 11. Selama (agil_j < 4),
- 12. Mencetak nilai variabel Nilai[agil_i][agil_j]
- 13. Agil_i++
- 14. Agil_bj++
- 15. Selesai

PSEUDOCODE DEKLARASI VARIABEL

Nilai[4][4], agil_i, agil_j: int

DESKRIPSI

```
agil_i = 0
agil_j = 0
for (agil_i = 0; agil_i < 4; agil_i++)
    for (agil_j = 0; agil_j < 4; agil_j++)
        print (agil_i+1, agil_j+1)
        input (Nilai[agil_i][agil_j])
for (agil_i = 0; agil_i < 4; agil_i++)
        for (agil_j = 0; agil_j < 4; agil_j++)
        print (Nilai[agil_i][agil_j])
endfor</pre>
```

```
| Continue | Continue
```

Algoritma

- 1. agil_i ← 0
- 2. Agil_j ← 0
- 3. Selama (agil_i < 4)
- 4. Selama (agil_j < agil_i+1)
- 5. Mencetak nilai variabel agil_i+1
- 6. Mencetak nilai variabel agil_j+1
- 7. Menginput nilai variabel Nilai[agil_i][agil_j]
- 8. Agil_i++
- 9. Agil_j++
- 10. Selama (agil_i < 4),
- 11. Selama (agil_j < agil_i+1),
- 12. Mencetak nilai variabel Nilai[agil_i][agil_j]
- 13. Agil_i++
- 14. Agil_bj++
- 15. Selesai

PSEUDOCODE

DEKLARASI VARIABEL

Nilai[4][4], agil_i, agil_j: int

DESKRIPSI

endfor

```
agil_i = 0
agil_j = 0
for (agil_i = 0; agil_i < 4; agil_i++)
    for (agil_j = 0; agil_j < agil_i+1; agil_j++)
        print (agil_i+1, agil_j+1)
        input (Nilai[agil_i][agil_j])
for (agil_i = 0; agil_i < 4; agil_i++)
    for (agil_j = 0; agil_j < agil_i+1; agil_j++)
    print (Nilai[agil_i][agil_j])</pre>
```

```
#include <iostream>
                                 using namespace std;
int agil_A[10][10], agil_B[10][10], agil_C[10][10];
int agil_iA, agil_iB, agil_jA, agil_jB;
                                              int agil_i,agil_j,agil_k;

cout << "Menampilkan Array/larik multi dimensi" << endl;

cout << "Menampilkan Besar Baris dan Kolom Matriks A" << endl;

cout << "Masukkan Jumlah Baris Matriks A = "; cin >> agil_iA;

cout << "Masukkan Jumlah Baris Matriks A = "; cin >> agil_jA;

cout << "Masukkan Jumlah Baris Matriks B = "; cin >> agil_jA;

cout << "Masukkan Jumlah Baris Matriks B = "; cin >> agil_jB;

cout << "Masukkan Jumlah Baris Matriks B = "; cin >> agil_jB;

cout << "Masukkan Jumlah Baris Matriks B = "; cin >> agil_jB;

cout << "Masukkan Jumlah Baris Matriks B = "; cin >> agil_jB;

cout << "Masukkan Jumlah Baris Matriks B = "; cin >> agil_jB;

cout << "Menginput Isi Flemen Array Matriks A"
                                                   int agil_i,agil_j,agil_k;
                                               Windows (CR LF) UTF-8
                                                                                                                                                                                                                                                                                                                                                                                                              Ln:5 Col:3 Pos:106
                                r 🗵 | Array/71 cap 😢 | fungsi 1 cap 😢 | fungsi 2 cap 😢 | fungsi 2 cap 😢 | fungsi 3 cap 😢 | fungsi 5 cap 😢 | fungsi 5 cap 😢 | fungsi 7 cap 😢 | array/21 cap 🖎 | array/21 cap (array) | array/21 
                                                cout << endl;
cout << "Tampilan Isi Elemen Array Matriks A" << endl;
cout << "^*** endl;</pre>
                                                41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
67
68
66
67
67
71
72
                                                  for (agil_i=0; agil_i<agil_iB; agil_i++) {
   for (agil_i=0; agil_j<agil_jB; agil_j++)
      cout << agil_B[agil_i][agil_j] << " ";
      cout << endl;
    }
}</pre>
                                                  //Perhalian Matriks

for (agil i=0; agil i<agil iA; agil i++)
    for (agil j=0; agil j<agil jA; agil j++)
    for (agil k=0; agil kagil jA; agil k++)
                                                  cout << endl;
cout << endl;
cout << "Tampilan Hasil Kali Dua Matriks" << endl;</pre>
                                                   cout << "~~~~~~" << endl;
for (agil_i=0; agil_i<agil_iA; agil_i++)
                                                                     for (agil_j=0; agil_j<agil_jB; agil_j++)</pre>
```

length: 2,501 lines: 74

Windows (CR LF) UTF-8

```
Command Prompt
E:\>g++ array23.cpp -o array23.exe
E:\>array23
Menampilkan Array/larik multi dimensi
Menampilkan Besar Baris dan Kolom Matriks A
NANANANANANA
Masukkan Jumlah Baris Matriks A = 3
Masukkan Jumlah Kolom Matriks A = 3
Masukkan Jumlah Baris Matriks B = 3
Masukkan Jumlah Kolom Matriks B = 2
Menginput Isi Elemen Array Matriks A
Masukkan Isi Elemen [1][1] : 3
Masukkan Isi Elemen [1][2] : 2
Masukkan Isi Elemen [1][3] : 1
Masukkan Isi Elemen [2][1] : 4
Masukkan Isi Elemen [2][2] : 3
Masukkan Isi Elemen [2][3] : 2
Masukkan Isi Elemen [3][1] : 5
Masukkan Isi Elemen [3][2] : 4
Masukkan Isi Elemen [3][3] : 2
Menginput isi elemen array matriks b
Masukkan Isi Elemen\{1\}\{1\} : 3
Masukkan Isi Elemen\{1\}\{2\} : 5
Masukkan Isi Elemen\{2\}\{1\} : 2
Masukkan Isi Elemen{2}{2} : 3
Masukkan Isi Elemen\{3\}\{1\} : 5
Masukkan Isi Elemen{3}{2} : 4
Tampilan Isi Elemen Array Matriks A
     2
    3
          2
    4
          2
```