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TUGAS ALGORITMA HAL 119

1. Penjumlahan, pengurangan, dan perkalian matriks

```
#include <iostream>
using namespace std;

int main ()
{
    int i,j,baris,kolom,perhitungan,operasi;
    cout << "Masukan Jumlah Baris = ";
    cin >> baris;
    cout << "Masukan Jumlah Kolom = ";
    cin >> kolom;

    int m1[baris][kolom];
    int m2[baris][kolom];
    cout << "Matriks 1 " << endl;
    for(int i = 1; i <= baris; i++) {
        for(int j = 1; j <= kolom; j++) {
            cout << " Input nilai : [" << i << " ] [" << j << " ] = ";
            cin >> m1[i][j];
        }
    }
    cout << endl;

    cout << "Matriks 2 " << endl;
    for(int i = 1; i <= baris; i++) {
        for(int j = 1; j <= kolom; j++) {
            cout << " Input nilai : [" << i << " ] [" << j << " ] = ";
            cin >> m2[i][j];
        }
    }
    cout << endl;
    cout << "Operasi yang tersedia" << endl;
    cout << "Penjumlahan = 1 | Pengurangan = 2 | Perkalian = 3 " << endl;
    cout << "Pilih operasi yang diinginkan = ";
    cin >> operasi;
    cout << endl;
    if(operasi == 1) {
        cout << "Menampilkan penjumlahan matriks : " << endl;
        for(int i=1; i<=baris; i++) {
            for(int j = 1; j <= kolom; j++) {
                cout << m1[i][j] + m2[i][j] << "\t";
            }
            cout << endl;
        }
    }
    else {
        if(operasi == 2) {
            cout << "Menampilkan pengurangan matriks : " << endl;
            for(int i=1; i<=baris; i++) {
                for(int j = 1; j <= kolom; j++) {
                    cout << m1[i][j] - m2[i][j] << "\t";
                }
                cout << endl;
            }
        }
        else {
            if(operasi == 3) {
                cout << "Hasil perkalian matriks : " << endl;
                for(int i=1; i<=baris; i++) {
                    for(int j=1; j<=kolom; j++) {
                        cout << m1[i][j] * m2[i][j] << "\t";
                    }
                    cout << endl;
                }
            }
            else {
            }
        }
    }
    return 0;
}
```

```

Masukan Jumlah Baris = 3
Masukan Jumlah Kolom = 3
Matriks 1
Input nilai : [1] [1] = 1
Input nilai : [1] [2] = 4
Input nilai : [1] [3] = 6
Input nilai : [2] [1] = 5
Input nilai : [2] [2] = 2
Input nilai : [2] [3] = 7
Input nilai : [3] [1] = 5
Input nilai : [3] [2] = 4
Input nilai : [3] [3] = 8

Matriks 2
Input nilai : [1] [1] = 3
Input nilai : [1] [2] = 5
Input nilai : [1] [3] = 6
Input nilai : [2] [1] = 4
Input nilai : [2] [2] = 7
Input nilai : [2] [3] = 8
Input nilai : [3] [1] = 6
Input nilai : [3] [2] = 1
Input nilai : [3] [3] = 2

Operasi yang tersedia
Penjumlahan = 1 | Pengurangan = 2 | Perkalian = 3
Pilih operasi yang diinginkan = 2

Menampilkan pengurangan matriks :
-2      -1      0
1       -5      -1
-1      3       6

-----
Process exited after 28.05 seconds with return value 0
Press any key to continue . . .

```

2. Tabel menu fried chicken

```

#include <iostream>
using namespace std;

int main()
{
    int bj,i,a,j;
    int harga[3] = {2500, 2000, 1500};
    int bp [100];
    int jumlah[100];
    string kode[3] = {"D","P","S"}, jenis[3] = {"Dada","Paha","sayap"};

    // PAPAN MENU
    cout << "GEROBAK FRIED CHICKEN " << endl;
    cout << "-----" << endl;
    cout << "Kode" << " " << "Jenis" << " " << "Harga " << endl;
    cout << "-----" << endl;
    cout << " " << kode[0] << "\t " << jenis[0] << "\t " << " Rp." << harga[0] << endl;
    cout << " " << kode[1] << "\t " << jenis[1] << "\t " << " Rp." << harga[1] << endl;
    cout << " " << kode[2] << "\t " << jenis[2] << "\t " << " Rp." << harga[2] << endl;
    cout << "-----" << endl;

    // INPUT JUMLAH
    char jp[100];

    cout << "Banyak jenis : ";
    cin >> bj;
    for(i=1; i<=bj; i++) {
        cout << "\nJenis ke - " << i << endl;
        cout << "Jenis potong [D/P/S] : ";
        cin >> jp[i];
        cout << "Banyak potong      : ";
        cin >> bp[i];
    }
    cout << endl;
}

```

```
// Layar keluaran
int total,diskon;

cout << "\t\t\tGEROBAK FRIED CHICKEN" << endl;
cout << "-----" << endl;
cout << "No.          Jenis          Harga          Banyak          Jumlah" << endl;
cout << "          Potong          Satuan          Beli          Harga " << endl;
cout << "-----" << endl;
for(a=1; a<=bj; a++) {
    cout << a << "\t\t";
    if(jp[a] == 'D' || jp[a] == 'd') {
        cout << "Dada" << "\t\t" << harga[0] << "\t\t" << bp[a] << "\t\t";
        jumlah[a] = bp[a] * harga[0];
    }
    else if(jp[a] == 'P' || jp[a] == 'p') {
        cout << "Paha" << "\t\t" << harga[1] << "\t\t" << bp[a] << "\t\t";
        jumlah[a] = bp[a] * harga[1];
    }
    else if(jp[a] == 'S' || jp[a] == 's') {
        cout << "Sayap" << "\t\t" << harga[2] << "\t\t" << bp[a] << "\t\t";
        jumlah[a] = bp[a] * harga[2];
    }
    total += jumlah[a];
    cout << jumlah[a] << endl;
}

cout << "-----" << endl;
cout << "\t\t\t\t\tJumlah Bayar Rp." << total << endl;
diskon = total * 0.1;
cout << "\t\t\t\t\tPajak 10% Rp." << diskon << endl;
cout << "\t\t\t\t\tTotal Bayar Rp." << diskon + total;

return 0;
}
```

GEROBAK FRIED CHICKEN

Kode	Jenis	Harga
D	Dada	Rp.2500
P	Paha	Rp.2000
S	sayap	Rp.1500

Banyak jenis : 3

Jenis ke - 1

Jenis potong [D/P/S] : D

Banyak potong : 4

Jenis ke - 2

Jenis potong [D/P/S] : P

Banyak potong : 4

Jenis ke - 3

Jenis potong [D/P/S] : S

Banyak potong : 4

GEROBAK FRIED CHICKEN

No.	Jenis Potong	Harga Satuan	Banyak Beli	Jumlah Harga
1	Dada	2500	4	10000
2	Paha	2000	4	8000
3	Sayap	1500	4	6000

Jumlah Bayar Rp.24000

Pajak 10% Rp.2400

Total Bayar Rp.26400

Process exited after 17.64 seconds with return value 0

Press any key to continue . . . |