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Kelas: TI-24-PA

Matkul: Algoritma Pemrograman Struktur Data



## Matriks

```
#include <iostream>
using namespace std;
int main() {
   int baris, kolom, a, b;
       cout << "Program Perhitungan Matriks" << endl;
cout << "Masukkan Jumlah Baris: ";</pre>
       cin >> baris;
cout << "Masukkan Jumlah Kolom: ";</pre>
       int MatriksA[baris][kolom], MatriksB[baris][kolom];
        cout << "\nMatriks A:" << endl;</pre>
       cout << "\mMatriks A:" << engl;
for (a = 0; a < baris; a++) {
   for (b = 0; b < kolom; b++) {
      cout << "Matriks A[" << a << "][" << b << "]: ";
      cin >> MatriksA[a][b];
       cout << "\nMatriks B:" << endl;</pre>
       cout << "\matrixs b: < enu;
for (a = 0; a < baris; a++) {
    for (b = 0; b < kolom; b++) {
        cout << "Matriks B[" << a << "][" << b << "]: ";
        cin >> MatriksB[a][b];
       cout << "\nHasil Jumlah Antar Matriks A dengan Matriks B : " << endl;</pre>
for (a = 0; a < baris; a++) {
   for (b = 0; b < kolom; b++) {
      cout << MatrixsA[a][b] + MatriksB[a][b] << "\t";
       cout << endl;
 cout << "\nHasil Kurang Antar Matriks A dengan Matriks B : " << endl;</pre>
cout << \\ (\text{Innasis Nurang Antar matrixs A dengan matrixs b
for (a = 0; a < baris; a++) {
    for (b = 0; b < kolom; b++) {
        cout << MatrixsA[a][b] - MatrixsB[a][b] << "\t";
}</pre>
       cout << endl;
```

```
cin >> kolom;
     int MatriksA[baris][kolom], MatriksB[baris][kolom];
     cout << "\nMatriks A:" << endl;</pre>
     for (a = 0; a < baris; a++) {</pre>
          for (b = 0; b < kolom; b++) {</pre>
               cout << "Matriks A[" << a << "][" << b << "]: ";
               cin >> MatriksA[a][b];
     cout << "\nMatriks B:" << endl;</pre>
     for (a = 0; a < baris; a++) {
          for (b = 0; b < kolom; b++) {</pre>
               cout << "Matriks B[" << a << "][" << b << "]: ";
               cin >> MatriksB[a][b];
     cout << "\nHasil Jumlah Antar Matriks A dengan Matriks B : " << endl;</pre>
for (a = 0; a < baris; a++) {
     for (b = 0; b < kolom; b++) {
         cout << MatriksA[a][b] + MatriksB[a][b] << "\t";</pre>
     cout << endl;</pre>
}
cout << "\nHasil Kurang Antar Matriks A dengan Matriks B : " << endl;</pre>
for (a = 0; a < baris; a++) {
     for (b = 0; b < kolom; b++) {</pre>
      cout << MatriksA[a][b] - MatriksB[a][b] << "\t";</pre>
     cout << endl;</pre>
}
cout << "\nHasil Kali Antar Matriks A dengan Matriks B : " << endl;</pre>
for (a = 0; a < baris; a++) \{
     for (b = 0; b < kolom; b++) {
         cout << MatriksA[a][b] * MatriksB[a][b] << "\t";</pre>
     cout << endl;</pre>
}
}
Masukkan Jumlah Baris: 2
Masukkan Jumlah Kolom: 2
Matriks A:
Matriks A[0][0]: 3
Matriks A[0][1]: 4
Matriks A[1][0]: 5
Matriks A[1][1]: 6
Matriks B:
Matriks B[0][0]: 7
Matriks B[0][1]: 8
Matriks B[1][0]: 9
Matriks B[1][1]: 0
Hasil Jumlah Antar Matriks A dengan Matriks B :
10
14
Hasil Kurang Antar Matriks A dengan Matriks B :
Hasil Kali Antar Matriks A dengan Matriks B :
Process exited after 19.49 seconds with return value 0 Press any key to continue . . . \mid
```

## Gerobak Fried Chicken

```
#include <iostream>
using namespace std;
int main() {
   const float pajak = 0.1;
   const int harga_satuan[3] = {2500, 2000, 1500};
   const char kode[3] = {"D', 'P', 'S'};
   const string jenis[3] = {"Oada", "Paha", "Sayap"};
         cout << "GEROBAK FRIED CHICKEN\n";</pre>
        cout << "GEROBAK FRIED CHICKEN(n;
cout << ""--------\n";
cout << "Kode\t]enis\tHarga\n";
cout << "--------\n";
for (int i = 0; i < 3; i++) {
      cout << " " << kode[i] << '\t' << "Rp. " << harga_satuan[i] << '\n';
}</pre>
          cout << "----\n":
        int banyak_jenis;
cout << "Banyak Jenis : ";
cin >> banyak_jenis;
         char jenis_pembelian[banyak_jenis];
int banyak_potong[banyak_jenis];
         for (int i = 0; i < banyak_jenis; i++) {
   char jenis_potong;
   bool valid = false;</pre>
                while (!valid) {
    cout << "\nlenis Ke - " << i + 1 << '\n';
    cout << "Jenis Potong [D/P/5] : ";
    cin >> jenis_potong;
                         switch (jenis_potong) {
   case 'D':
   case 'd':
                                        jenis_pembelian[i] = 'D';
valid = true;
                                         break;
                                 case 'P':
case 'p':
    jenis pembelian[i] = 'P';
                                               jenis_pembelian[i] = 'P';
valid = true;
                                               break:
                                       case 'S':
                                               jenis_pembelian[i] = 'S';
valid = true;
                                               break;
                                       default:
                                               cout << "Kode yang Anda masukan invalid. Silakan coba lagi.\n";</pre>
                     cout << "Banyak Potong : ";
cin >> banyak_potong[i];
             int total_banyak_potong[3] = {0, 0, 0};
int total_harga_berdasarkan_jenis[3] = {0, 0, 0};
int total_bayar_tanpa_pajak = 0;
            for (int i = 0; i < banyak_jenis; i++) {
   if (jenis_pembelian[i] == 'D') {
        total_banyak_potong[0] += banyak_potong[i];
        } else if (jenis_pembelian[i] == 'P') {
            total_banyak_potong[1] += banyak_potong[i];
        } else if (jenis_pembelian[i] == 'S') {
            total_banyak_potong[2] += banyak_potong[i];
        }</pre>
             for (int i = 0; i < 3; i++) {
   total_harga_berdasarkan_jenis[i] = total_banyak_potong[i] * harga_satuan[i];
   total_bayar_tanpa_pajak += total_harga_berdasarkan_jenis[i];</pre>
             float harga_pajak = total_bayar_tanpa_pajak * pajak;
float total_bayar_pake_pajak = total_bayar_tanpa_pajak + harga_pajak;
             cout << "----\n";
```

```
GEROBAK FRIED CHICKEN
Kode
        Jenis
                Harga
 D
        Dada
                Rp. 2500
 Ρ
        Paha
                Rp. 2000
 S
                Rp. 1500
        Sayap
Banyak Jenis : 3
Jenis Ke - 1
Jenis Potong [D/P/S] : d
Banyak Potong: 3
Jenis Ke - 2
Jenis Potong [D/P/S] : p
Banyak Potong : 2
Jenis Ke - 3
Jenis Potong [D/P/S] : s
Banyak Potong: 3
                GEROBAK FRIED CHICKEN
No.
        Jenis
                        Harga
                                Banyak
                                        Jumlah
        Potong
                        Satuan Beli
                                        Harga
        Dada
                        Rp. 2500
                                        3
                                                 Rp. 7500
                        Jumlah Bayar
                                        Rp. 16000
```

Banyak Jenis : 3			
Jenis Ke - 1 Jenis Potong [D/P/S] : d Banyak Potong : 3			
Jenis Ke - 2 Jenis Potong [D/P/S] : p Banyak Potong : 2			
Jenis Ke - 3 Jenis Potong [D/P/S] : s Banyak Potong : 3			
GEROBAK FRIED CHICKEN			
No.	Jenis Potong	Harga Banyak Satuan Beli	
1.	Dada	Rp. 2500	3 Rp. 7500
		Jumlah Bayar Pajak 10% Total Bayar	Rp. 1600
Process exited after 23.43 seconds with return value 0 Press any key to continue			