## STRUKTUR DATA

(Tugas2)



Nama: Prames Ray Lapian

NPM: 140810210059

Dikumpulkan tanggal:

6 Maret 2022

UNIVERSITAS PADJADJARAN FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM Program Studi INFORMATIKA 2022

```
Nama Program : Quiz1
                   : Prames Ray Lapian
    NPM
                   : 140810210059
                  : 14 Mar 2022
    Tanggal Buat
   Deskripsi
    Lokasi File : C:\Users\prame\Documents\PRAMES\PERKULIAHAN\SEMESTER
2\Struktur Data\TUGAS
#include <iostream>
using namespace std;
typedef int matriks[10][10];
void banyakData(int& nBaris, int& nKolom)
    cout << "Banyak baris : "; cin >> nBaris;
    cout << "Banyak kolom : "; cin >> nKolom;
void isiMatriks(int nBaris, int nKolom, matriks x1)
    if (nBaris > 0 && nKolom > 0)
        cout << "\nMasukkan isi matriks\n";</pre>
        for (int i = 0; i < nBaris; i++)
            for (int j = 0; j < nKolom; j++)
                cout << "Baris " << i+1 << ", Kolom " << j+1 << " = "; cin >>
x1[i][j];
            cout << endl;</pre>
void cetakMatriks(int nBaris, int nKolom, matriks x1)
    cout << "=======\n"
         << "Matriks:\n";</pre>
    for (int i = 0; i < nBaris; i++)</pre>
        for (int j = 0; j < nKolom; j++)
            cout << x1[i][j] << "\t";</pre>
```

```
cout << endl;</pre>
void cariJumlahKolom(int nBaris, int nKolom, matriks x1)
    for (int j = 0; j < nKolom; j++)
        int jb[j] = 0;
        for (int i = 0; i < nBaris; i++)
            jb[i] += x1[i][j];
void cariJumlahBaris(int nBaris, int nKolom, matriks x1)
    int jb[10];
    for (int i = 0; i < nKolom; i++)
        jb[i] = 0;
        for (int j = 0; j < nBaris; j++)
            jb[j] += x1[i][j];
int main()
   matriks x1;
    int nBaris, nKolom;
    banyakData(nBaris, nKolom);
    isiMatriks(nBaris, nKolom, x1);
    cetakMatriks(nBaris, nKolom, x1);
    cariJumlahBaris(nBaris, nKolom, x1);
    cariJumlahKolom(nBaris, nKolom, x1);
```

```
Nama Program : Quiz1_2
                   : Prames Ray Lapian
   NPM
                    : 140810210059
   Tanggal Buat : 14 Mar 2022
                   : Membuat list baru dan mencari 4 cara meng-outputkan
   Deskripsi
suatu pointer
   Lokasi File : C:\Users\prame\Documents\PRAMES\PERKULIAHAN\SEMESTER
2\Struktur Data\TUGAS
#include <iostream>
using namespace std;
struct ElmtList
   char info;
   ElmtList* next;
};
typedef ElmtList* pointerToElmtList;
typedef pointerToElmtList List;
main()
   pointerToElmtList p1, p2, p3, p4;
   List First;
   cout <<"Input : "<< endl;</pre>
   p1 = new ElmtList;
    cout << "info p1 = "; cin >> p1 -> info;
   p1 -> next = NULL;
   p2 = new ElmtList;
    cout << "info p2 = "; cin >> p2 -> info;
    p2 -> next = NULL;
   p3 = new ElmtList;
    cout << "info p3 = "; cin >> p3 -> info;
   p3 -> next = NULL;
    p4 = new ElmtList;
    cout << "info p4 = "; cin >> p4 -> info;
    p4 -> next = NULL;
    p1 -> next = p2;
    p2 \rightarrow next = p3;
   p3 -> next = p4;
```

```
First = p1;

cout << "Output : " << endl;
cout << "info p1 : " << p1 -> info << endl;
cout << "info p2 : " << p2 -> info << endl;
cout << "info p3 : " << p3 -> info << endl;
cout << "info p4 #1: " << p4 -> info << endl;
cout << "info p4 #2: " << p3 -> next -> info << endl;
cout << "info p4 #3: " << p2 -> next -> info << endl;
cout << "info p4 #3: " << p2 -> next -> next -> info << endl;
cout << "info p4 #4: " << p1 -> next -> next -> info << endl;
}</pre>
```

## Output:

```
Input :
info = A
info = B
info = C
info = D
Output :
info p1 : A
info p2 : B
info p3 : C
info p4 #1: D
info p4 #2: D
info p4 #3: D
info p4 #4: D
```