

**LAPORAN PRAKTIKUM
ALGORITMA DAN PEMROGRAMAN
MODUL 6**

SENARAI / LARIK / ARRAY



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ANALISIS PROSES PROGRAM BERJALAN

1. POSTTEST

```
#include <iostream>
#include <conio.h>
using namespace std;

int data, asc;

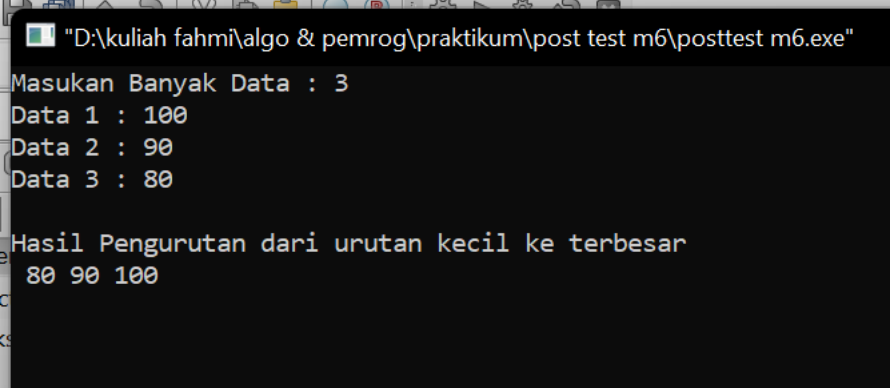
main(){
    cout << "Masukan Banyak Data : ";
    cin >> data;

    int nilai[data];

    for(int i=0; i<data; i++){
        cout << "Data " << (i+1) << " : ";
        cin >> nilai[i];
    }

    for(int c=1; c<data; c++)
    {
        for(int d=0; d<data-c; d++)
        {
            if(nilai[d] > nilai[d+1])
            {
                asc=nilai[d];
                nilai[d]=nilai[d+1];
                nilai[d+1]=asc;
            }
        }
    }

    cout << endl << "Hasil Pengurutan dari urutan kecil ke terbesar\n";
    for(int i=0; i<data; i++)
    {
        cout << " " << nilai[i];
    }
    cout << endl;
    getch();
    return 0;
}
```



```
"D:\kuliah fahmi\algo & pemrog\praktikum\post test m6\posttest m6.exe"
Masukan Banyak Data : 3
Data 1 : 100
Data 2 : 90
Data 3 : 80

Hasil Pengurutan dari urutan kecil ke terbesar
80 90 100
```

The image shows a Windows command prompt window with a dark background. The title bar at the top reads '"D:\kuliah fahmi\algo & pemrog\praktikum\post test m6\posttest m6.exe"'. The command prompt displays the following text: 'Masukan Banyak Data : 3', 'Data 1 : 100', 'Data 2 : 90', 'Data 3 : 80', followed by a blank line, 'Hasil Pengurutan dari urutan kecil ke terbesar', and finally '80 90 100'.

2. POSTEST

```
#include <iostream>
#include <conio.h>
using namespace std;

int data, dsc;

main(){
    cout << "Masukan Banyak Data : ";
    cin >> data;

    int nilai[data];

    for(int i=0; i<data; i++){
        cout << "Data " << (i+1) << " : ";
        cin >> nilai[i];
    }

    for(int c=1; c<data; c++)
    {
        for(int d=0; d<data-c; d++)
        {
            if(nilai[d] < nilai[d+1])
            {
                dsc=nilai[d];
                nilai[d]=nilai[d+1];
                nilai[d+1]=dsc;
            }
        }
    }

    cout << endl << "Hasil Pengurutan dari urutan besar ke terkecil\n";
    for(int i=0; i<data; i++)
    {
        cout << " " << nilai[i];
    }
    cout << endl;
    getch();
    return 0;
}
```

```
"D:\kuliah fahmi\algo & pemrog\praktikum\post test m6\posttest m6 no.02.exe"
Masukan Banyak Data : 5
Data 1 : 10
Data 2 : 20
Data 3 : 40
Data 4 : 50
Data 5 : 80

Hasil Pengurutan dari urutan besar ke terkecil
80 50 40 20 10
```

3. POSTEST

```
#include<iostream>
#include<conio.h>
using namespace std;
main()
{
    int i,x;
    int matriks_A[2][3], matriks_B[3][3], matriks_C[2][3];
    char ulang;

    cout<< "\nPerkalian 2 Matriks Ordo 2x3 X 2x3 \n\n";
    do{
        //Input data matriks A
        cout<< "\n PENGISIAN MATRIK A \n";
        cout<< "\nData matriks A \n";
        for(i=0 ;i<2; i++)
        {
            for(x=0 ;x<3; x++)
            {
                cout<< "["<<x<<"]["<<i<<"] : ";
                cin>> matriks_A[i][x];
            }
        }
        cout<< "\n PENGISIAN MATRIK B \n";
        //Input data matriks B
        cout<< "\nData matriks B \n";
        for(i=0 ;i<3; i++)
        {
            for(x=0 ;x<3; x++)
            {
                cout<< "["<<i<<"]["<<x<<"] : ";
                cin>> matriks_B[i][x];
            }
        }
        cout<< " HASIL PERKALIAN A x B ";
        //Output hasil penjumlahan Matriks A + Matriks B
        cout<< "\nMatriks A X Matriks B : "<<endl;
        for(i=0 ;i<2; i++)
        {
            for(x=0; x<3; x++)
            {
                matriks_C[i][x]=matriks_A[i][0]*matriks_B[0][x]+matriks_A[i][1]*matriks_B[1][x]+matriks_A[i][2]*matriks_B[2][x];
                cout<< "\t"<<matriks_C[i][x];
            }
            cout<<endl;
        }
        cout<< "\n BILA INGIN MALAKUKAN PERHITUNGAN LAGI\n";
        cout<< "\nHitung lagi ? [y/t] : ";cin>>ulang;
    }while(ulang!='t');
    cout<< "\n\nTerima Kasih \n\n"<<endl;
    getch();
}
```

```
"D:\kuliah fahm\algo & pemrog\praktikum\post test m6\posttest m6 no.03.exe"
Perkalian 2 Matriks Ordo 2x3 X 2x3

PENGISIAN MATRIK A
Data matriks A
[0][0] : 10
[1][0] : 20
[2][0] : 30
[0][1] : 40
[1][1] : 50
[2][1] : 60

PENGISIAN MATRIK B
Data matriks B
[0][0] : 90
[0][1] : 80
[0][2] : 70
[1][0] : 20
[1][1] : 30
[1][2] : 40
[2][0] : 50
[2][1] : 60
[2][2] : 70
HASIL PERKALIAN A x B
Matriks A X Matriks B :
      2800   3200   3600
      7600   8300   9000

BILA INGIN MALAKUKAN PERHITUNGAN LAGI
Hitung lagi ? [y/t] : ^S
```

4. POSTEST

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

int main() {
    int array[10], data;
    float angka, total = 0, rata;

    cout << "Mencari Rata-rata dari sebuah Data" << endl;
    cout << endl;
    cout << "Banyak Data\t: ";
    cin >> data;
    cout << endl;

    for (int i = 1; i <= data; i++) {
        cout<<"Data nilai ke-"<<i<<" : ";
        cin >> angka;
        total += angka;
    }

    cout << endl;
    cout << "Total\t\t: " << total << endl;
    rata = total / data;
    cout << "Rata-rata\t: " << rata;
    return 0
    ;
}
```

"D:\kuliah fahmi\algo & pemrog\praktikum\post test m6\posttest m6 no.04.exe"

Mencari Rata-rata dari sebuah Data

Banyak Data : 4

Data nilai ke-1 : 90

Data nilai ke-2 : 80

Data nilai ke-3 : 70

Data nilai ke-4 : 90

Total : 330

Rata-rata : 82.5

Process returned 0 (0x0) execution time : 11.739 s

Press any key to continue.