



Array / Larik

Java Fundamental

1

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Latihan

3. Buat program Penjualan dengan data barang sebagai berikut :

Kode Barang	Nama Barang	Harga Satuan
A01	Hardisk	700000
B02	Monitor	800000
C02	Mouse	50000

Input : Nama Pembeli, Kode Barang & Jumlah

Output :

```
=====
```

No	Nama Pembeli	KodeBarang	NamaBarang	Jumlah	Harga	Bayar
1	Yuzkin	A01	Hardisk	2	700000	1400000
2	Salsabila	B02	Monitor	1	800000	800000
3	Eza	C03	Mouse	3	50000	1500000

```
=====
```



Menyalin Array (Copying Array)

```
public class copyArray{
    public static void main(String[ ] args){
        String nama[ ]=new String[5];
        nama[0]="Dadan";   nama[1]="Didin";  nama[2]="Deden"; nama[3]="Maman";
        nama[4]="Mimin";

        String[] nama2=new String[5];

        // System.arraycopy( ArrayAsal, indexAwalArrayAsal, ArrayBaru, indexAwalArrayBaru, Panjang);

        System.arraycopy(nama,0,nama2,0,nama.length);

        System.out.println("=====");
        System.out.println("Nama");
        System.out.println("=====");
        System.out.println(nama2[0]);
        System.out.println(nama2[1]);
        System.out.println(nama2[2]);
        System.out.println(nama2[3]);
        System.out.println(nama2[4]);
    }
}
```



Array Multi Dimensi

Array multidimensi diimplementasikan sebagai array didalam array. Array multidimensi di deklarasikan dengan menambahkan jumlah tanda kurung setelah nama array.

Deklarasi dan Penciptaan Array 2 Dimensi :

```
Datatype [ ][ ] arrayVariable = new Datatype [ ][ ];
```

Atau

```
Datatype arrayVariable[ ][ ] = new Datatype [ ][ ];
```

Atau

```
Datatype [ ] arrayVariable[ ] = new Datatype [ ][ ];
```

Contoh :

```
int[][]nilai=new int[5][5];
```

```
String nama[][]=new String[5][5];
```

```
char[]index[]=new char[5][5];
```



Inisialisasi dan Akses Elemen

```
public class Array2Dimensi{

    public static void main(String[ ] args){
        int[][]nilai=new int[5][5];
        String nama[ ][ ]=new String[5][5];    char[]index[ ]=new char[5][5];

        nama[0][0]="Dadan";    nilai[0][0]=60;    index[0][0]='C';
        nama[0][1]="Didin";    nilai[0][1]=70;    index[0][1]='B';
        nama[0][2]="Deden";    nilai[0][2]=80;    index[0][2]='A';

        System.out.println("=====");
        System.out.println("Nama\t\tNilai\t\tIndex");
        System.out.println("=====");
        System.out.println(nama[0][0]+\t\t "+nilai[0][0]+\t\t"+index[0][0]);
        System.out.println(nama[0][1]+\t\t "+nilai[0][1] +"\t\t"+index[0][1]);
        System.out.println(nama[0][2]+\t\t "+nilai[0][2] +"\t\t"+index[0][2]);
        System.out.println(nama[0][3]+\t\t "+nilai[0][3] +"\t\t"+index[0][3]);

    }
}
```



Inisialisasi dan Akses Elemen

```
public class Array2Dimensi2{

    public static void main(String[ ] args){
        String[][]nama={"Dadan","Didin"},{"Deden","Maman"},{"Mimin","Mumun"};

        int nilai[ ][ ]={{40,50},{60,70},{80,90}};
        char[ ]index[ ]={'E','D'},{'C','B'},{'A','A'};

        System.out.println("=====");
        System.out.println("Nama\t\tNilai\t\tIndex");
        System.out.println("=====");
        System.out.println(nama[0][0]+\t\t "+nilai[0][0]+\t\t"+index[0][0]);
        System.out.println(nama[0][1]+\t\t "+nilai[0][1] +\t\t"+index[0][1]);
        System.out.println(nama[1][0]+\t\t "+nilai[1][0] +\t\t"+index[1][0]);
        System.out.println(nama[1][1]+\t\t "+nilai[1][1] +\t\t"+index[1][1]);

    }
}
```



Inisialisasi dan Akses Elemen

```
public class Array2Dimensi2{

    public static void main(String[ ] args){
        String[][]nama={{"Dadan", "Didin"}, {"Deden", "Maman"}, {"Mimin", "Mumun"}};

        int nilai[ ][ ]={{40,50},{60,70},{80,90}};
        char[ ]index[ ]={{'E','D'}, {'C','B'}, {'A','A'}};

        System.out.println("=====");
        System.out.println("Nama\t\tNilai\t\tIndex");
        System.out.println("=====");
        System.out.println(nama[0][0]+\t\t "+nilai[0][0]+\t\t"+index[0][0]);
        System.out.println(nama[0][1]+\t\t "+nilai[0][1] +\t\t"+index[0][1]);
        System.out.println(nama[1][0]+\t\t "+nilai[1][0] +\t\t"+index[1][0]);
        System.out.println(nama[1][1]+\t\t "+nilai[1][1] +\t\t"+index[1][1]);

    }
}
```



Inisialisasi dan Akses Elemen

```
public class Array2Dimensi2{

    public static void main(String[ ] args){
        String[][]nama={{"Dadan","Didin"},"Deden","Maman"},"Mimin","Mumun"}};

        int nilai[][]={{40,50},{60,70},{80,90}};
        char[]index={{'E','D'},{'C','B'},{'A','A'}};

        System.out.println("=====");
        System.out.println("Nama\t\tNilai\t\tIndex");
        System.out.println("=====");

        for(int i=0;i<nama.length;i++){
            for(int j=0;j<nama[i].length;j++){
                System.out.println(nama[i][j]+\t\t "+nilai[i][j]+\t\t"+index[i][j]);
            }
        }
    }
}
```