

Tugas 4 PBO

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TI-21-PA

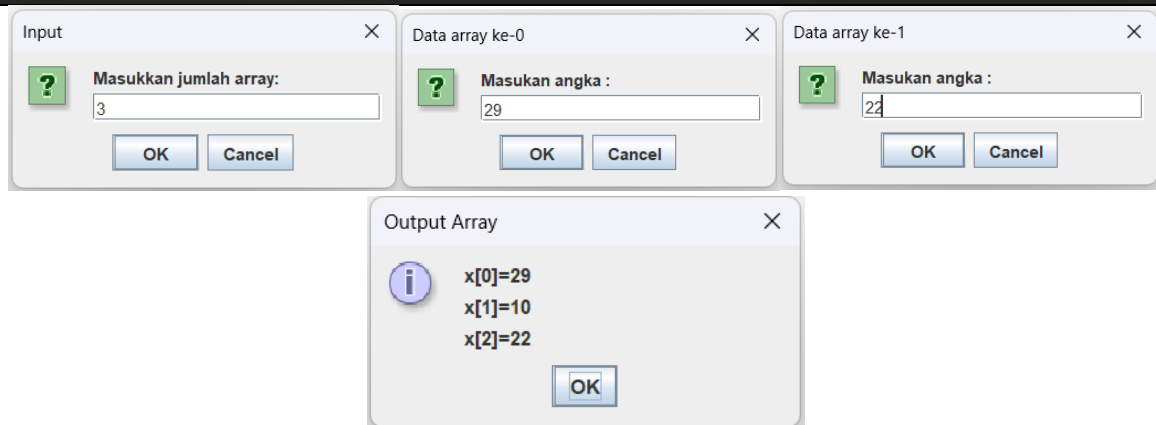
1. Latihan02

```
public class Latihan02 {  
    public static void main(String[] args) {  
        int[] num = new int[5];  
        num[0] = 10;  
        num[1] = 12;  
        num[2] = 42;  
        num[3] = 75;  
        num[4] = 3;  
  
        for (int i = 0; i < num.length; i++) {  
            System.out.println("ages[" + i + "] = " + num[i]);  
        }  
    }  
}
```

```
ages[0] = 10  
ages[1] = 12  
ages[2] = 42  
ages[3] = 75  
ages[4] = 3
```

2. Latihan03

```
import javax.swing.JOptionPane;  
  
public class Latihan03 {  
  
    public static void main(String[] args) {  
  
        String out = "";  
        int jml = Integer.parseInt(JOptionPane.showInputDialog(null,  
"Masukkan jumlah array: ", "Input", JOptionPane.QUESTION_MESSAGE));  
        int[] num = new int[jml];  
  
        for (int i = 0; i < jml; i++) {  
            num[i] =  
Integer.parseInt(JOptionPane.showInputDialog(null, "Masukan angka : ",  
"Data array ke-" + i, JOptionPane.QUESTION_MESSAGE));  
            out += "x[" + i + "]=" + num[i] + "\n";  
        }  
  
        JOptionPane.showMessageDialog(null, out , "Output Array",  
JOptionPane.INFORMATION_MESSAGE);  
    }  
}
```



3. Latihan04

```
import javax.swing.JOptionPane;

public class Latihan04 {

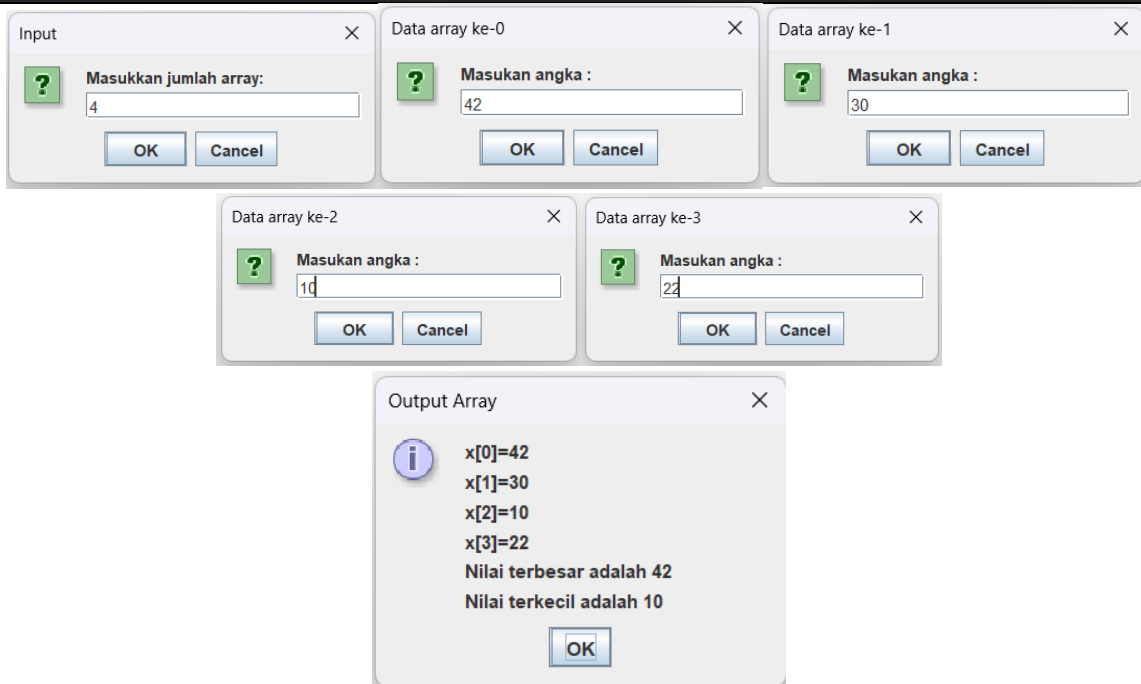
    public static void main(String[] args) {

        String out = "";
        int jml = Integer.parseInt(JOptionPane.showInputDialog(null,
        "Masukkan jumlah array: ", "Input", JOptionPane.QUESTION_MESSAGE));
        int[] num = new int[jml];
        int max = 0;

        for (int i = 0; i < jml; i++) {
            num[i] =
            Integer.parseInt(JOptionPane.showInputDialog(null, "Masukan angka : ",
            "Data array ke-" + i, JOptionPane.QUESTION_MESSAGE));
            out += "x[" + i + "]= " + num[i] + "\n";
            if (max < num[i]) {
                max = num[i];
            }
        }

        int min = max;
        for(int j = 0; j < jml; j++){
            if(num[j] < min){
                min = num[j];
            }
        }

        out += "Nilai terbesar adalah " + max + "\n";
        out += "Nilai terkecil adalah " + min;
        JOptionPane.showMessageDialog(null, out , "Output Array",
        JOptionPane.INFORMATION_MESSAGE);
    }
}
```



4. Latihan05

```
import javax.swing.JOptionPane;

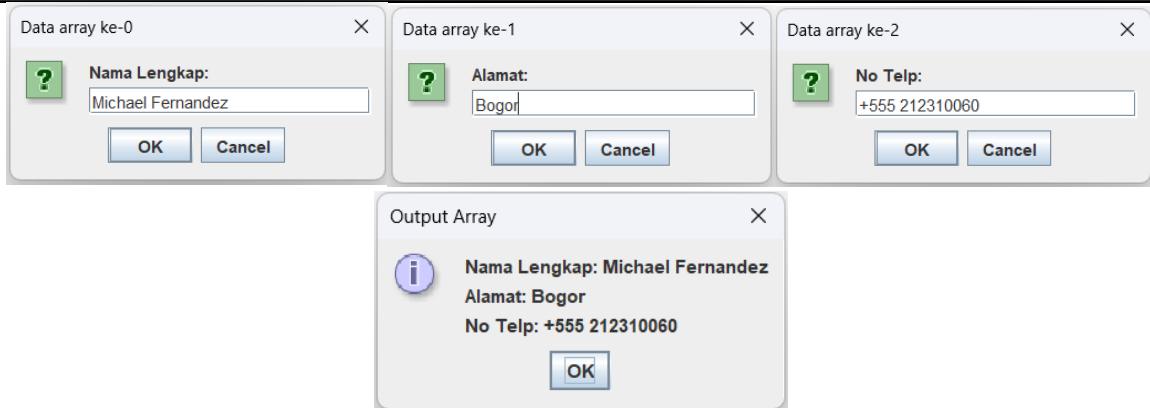
public class Latihan05 {

    public static void main(String[] args) {

        String out = "";
        String field[] = {"Nama Lengkap: ", "Alamat: ", "No Telp: "};
        String isi[] = {"", "", ""};

        for (int i = 0; i < field.length; i++) {
            String in = JOptionPane.showInputDialog(null,
            field[i], "Data array ke-" + i, JOptionPane.QUESTION_MESSAGE);
            isi[i] = in + "\n";
            out += field[i] + isi[i];
        }

        JOptionPane.showMessageDialog(null, out, "Output Array",
        JOptionPane.INFORMATION_MESSAGE);
    }
}
```



5. Latihan06

```
import javax.swing.JOptionPane;

public class Latihan06 {
    public static void main(String[] args) {
        int baris =2, kolom =2;

        int matriksA[][]= new int[baris][kolom];
        int matriksB[][]= new int[baris][kolom];

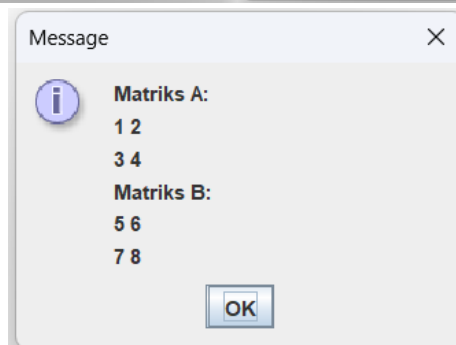
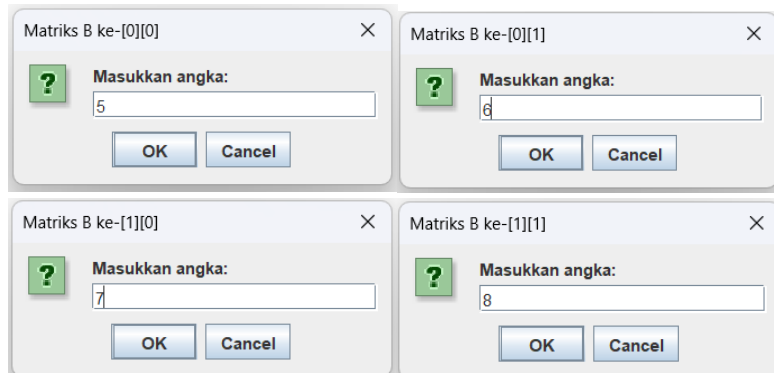
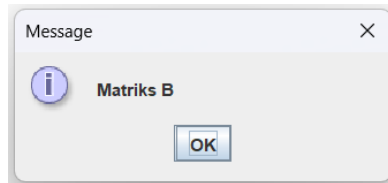
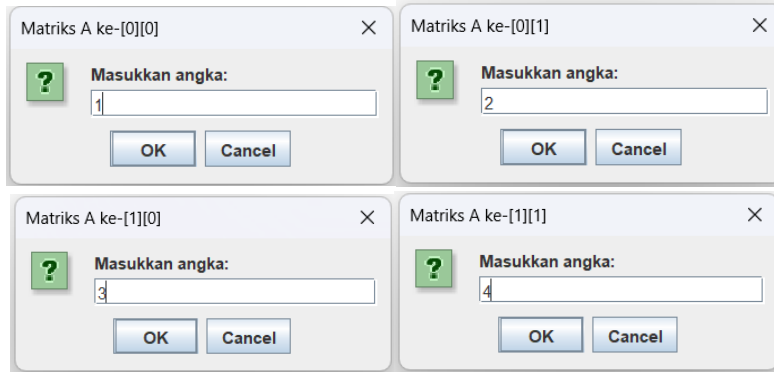
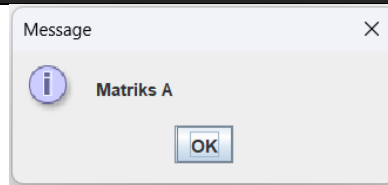
        //INPUT & OUTPUT
        JOptionPane.showMessageDialog(null, "Matriks A");
        String outputA="Matriks A: \n";
        for(int i =0; i<matriksA.length; i++) {
            for(int j=0; j<matriksA.length; j++) {
                matriksA[i][j] =
                Integer.parseInt(JOptionPane.showInputDialog(null,"Masukkan angka: ",
                "Matriks A ke-["+i+"]"+"["+j+"]",JOptionPane.QUESTION_MESSAGE));
                outputA += matriksA[i][j] + " ";
            }
            outputA += "\n";
        }
        String outputB="Matriks B: \n";
        JOptionPane.showMessageDialog(null, "Matriks B");
        for(int i =0; i<matriksB.length; i++) {
            for(int j=0; j<matriksB.length; j++) {
                matriksB[i][j] =
                Integer.parseInt(JOptionPane.showInputDialog(null,"Masukkan angka: ",
                "Matriks B ke-["+i+"]"+"["+j+"]", JOptionPane.QUESTION_MESSAGE));
            }
        }
    }
}
```

```

        outputB += matriksB[i][j] + " ";
    }
    outputB += "\n";
}

JOptionPane.showMessageDialog(null, outputA+outputB);
}

```



6. Latihan07

```
import javax.swing.JOptionPane;

public class Latihan07 {
    public static void main(String[] args) {
        int baris =2, kolom =2;

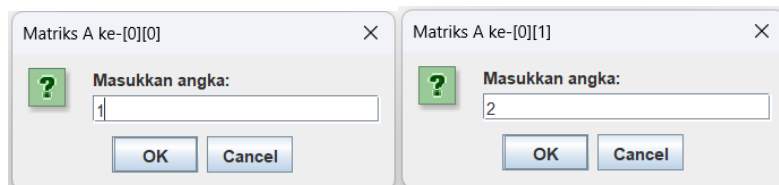
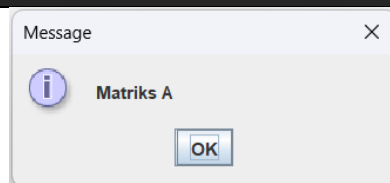
        int matriksA[][]= new int[baris][kolom];
        int matriksB[][]= new int[baris][kolom];
        int hasil1[][] = new int[baris][kolom];

        //INPUT & OUTPUT
        JOptionPane.showMessageDialog(null, "Matriks A");
        String outputA="Matriks A: \n";
        for(int i =0; i<matriksA.length; i++) {
            for(int j=0; j<matriksA.length; j++) {
                matriksA[i][j] =
Integer.parseInt(JOptionPane.showInputDialog(null,"Masukkan angka: ",
"Matriks A ke-["+i+"]"+"["+j+"]",JOptionPane.QUESTION_MESSAGE));
                outputA += matriksA[i][j] + " ";
            }
            outputA += "\n";
        }
        String outputB="Matriks B: \n";
        JOptionPane.showMessageDialog(null, "Matriks B");
        for(int i =0; i<matriksB.length; i++) {
            for(int j=0; j<matriksB.length; j++) {
                matriksB[i][j] =
Integer.parseInt(JOptionPane.showInputDialog(null,"Masukkan angka: ",
"Matriks B ke-["+i+"]"+"["+j+"]",JOptionPane.QUESTION_MESSAGE));
                outputB += matriksB[i][j] + " ";
            }
            outputB += "\n";
        }

        //CALCULATION & OUTPUT
        String output1="Pengurangan Matriks A: \n";
        for(int i =0; i<hasil1.length; i++) {
            for(int j=0; j<hasil1.length; j++) {
                hasil1[i][j] = matriksA[i][j] - matriksB[i][j];

                output1 += hasil1[i][j] + " ";
            }
            output1 += "\n";
        }

        JOptionPane.showMessageDialog(null, outputA+outputB+output1);
    }
}
```



Matriks A ke-[1][0]

?

Masukkan angka:

3

OK

Cancel

Matriks A ke-[1][1]

?

Masukkan angka:

4

OK

Cancel

Message

i

Matriks B

OK

Matriks B ke-[0][0]

?

Masukkan angka:

5

OK

Cancel

Matriks B ke-[0][1]

?

Masukkan angka:

6

OK

Cancel

Matriks B ke-[1][0]

?

Masukkan angka:

7

OK

Cancel

Matriks B ke-[1][1]

?

Masukkan angka:

8

OK

Cancel

Message

i

Matriks A:

1 2

3 4

Matriks B:

5 6

7 8

Pengurangan Matriks A:

-4 -4

-4 -4

OK

7. Latihan08

```
import javax.swing.JOptionPane;

public class Latihan08 {

    public static void main(String[] args) {
        int baris = 3, kolom = 4, end = 0, s = 1, e = 2;
        String output = "";
        String input[][] = new String[baris][kolom];
        input[0][0] = "Nama Lengkap: ";
        input[1][0] = "Alamat: ";
        input[2][0] = "No Telp: ";

        //INPUT & OUTPUT
        for(int i = 0; i < baris; i++) {
            output += input[i][0];
            for(int j = s; j < e; j++) {
                input[i][j] =
JOptionPane.showInputDialog(null, input[i][0], "Data Array ke-[" + i +
"]" + "[" + j + "]", JOptionPane.QUESTION_MESSAGE);
                output += input[i][j] + "\n";
            }
            //restart loop
            if (i == baris - 1) {
                output += "\n";
                i = -1;
                s = s + 1;
                e = e + 1;
                end = end + 1;
                if (end == 3) {
                    i = baris;
                }
            }
        }

        JOptionPane.showMessageDialog(null, output);
    }
}
```

<p>Data Array ke-[0][1]</p> <p>Nama Lengkap:</p> <input type="text" value="Septian Cahyadi"/> <p>OK Cancel</p>	<p>Data Array ke-[1][1]</p> <p>Alamat:</p> <input type="text" value="Dramaga cantik residence II, Bogor"/> <p>OK Cancel</p>	<p>Data Array ke-[2][1]</p> <p>No Telp:</p> <input type="text" value="+62 899-9506-210"/> <p>OK Cancel</p>
<p>Data Array ke-[0][2]</p> <p>Nama Lengkap:</p> <input type="text" value="Isnan Mulia"/> <p>OK Cancel</p>	<p>Data Array ke-[1][2]</p> <p>Alamat:</p> <input type="text" value="Jl.Manunggal, Bogor"/> <p>OK Cancel</p>	<p>Data Array ke-[2][2]</p> <p>No Telp:</p> <input type="text" value="+62 819-3208-0875"/> <p>OK Cancel</p>
<p>Data Array ke-[0][3]</p> <p>Nama Lengkap:</p> <input type="text" value="Edi Nurachmand"/> <p>OK Cancel</p>	<p>Data Array ke-[1][3]</p> <p>Alamat:</p> <input type="text" value="Taman Cimanggu Permai, Bogor"/> <p>OK Cancel</p>	<p>Data Array ke-[2][3]</p> <p>No Telp:</p> <input type="text" value="+62 856-9380-0384"/> <p>OK Cancel</p>

Message ×



Nama Lengkap: Septian Cahyadi
Alamat: Dramaga cantik residence II, Bogor
No Telp: +62 899-9506-210

Nama Lengkap: Isnan Mulia
Alamat: Jl.Manunggal, Bogor
No Telp: +62 819-3208-0875

Nama Lengkap: Edi Nurachmand
Alamat: Taman Cimanggu Permai, Bogor
No Telp: +62 856-9380-0384

OK

8. Latihan09

```
import java.util.ArrayList;
import javax.swing.JOptionPane;

public class Latihan09 {

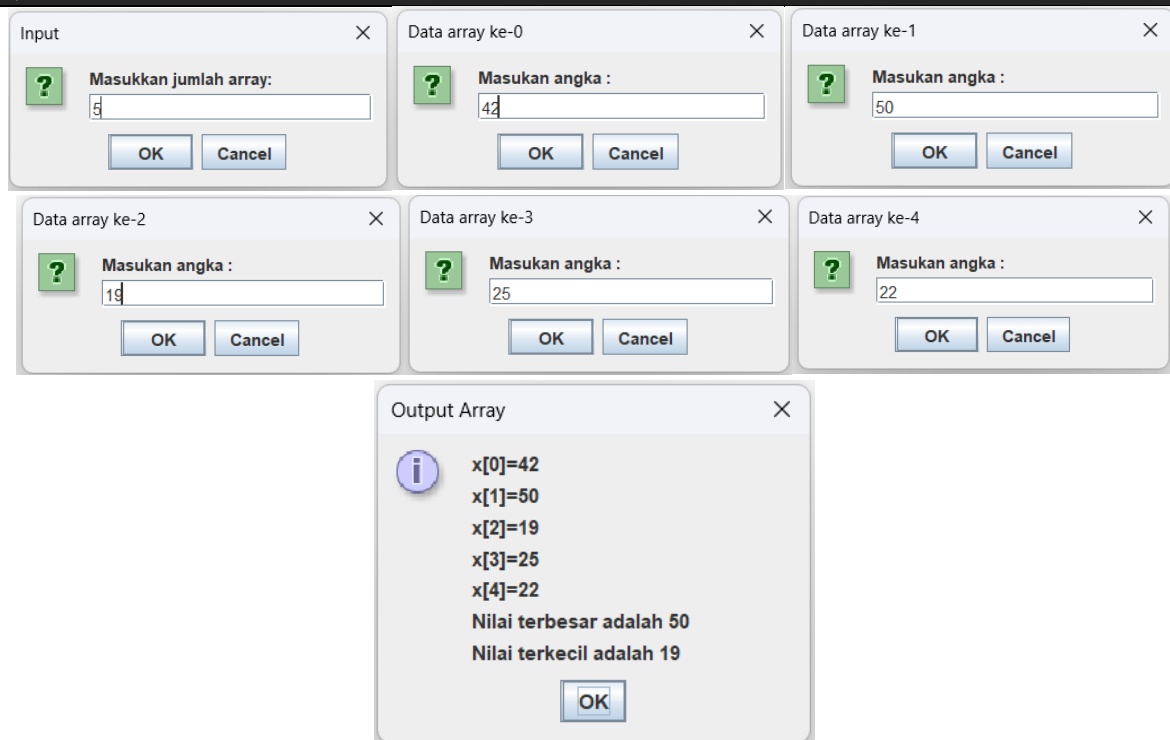
    public static void main(String[] args) {

        String out = "";
        int jml = Integer.parseInt(JOptionPane.showInputDialog(null,
        "Masukkan jumlah array: ", "Input", JOptionPane.QUESTION_MESSAGE));
        ArrayList<Integer> num = new ArrayList<Integer>();
        int max = 0;

        for (int i = 0; i < jml; i++) {
            int isi =
Integer.parseInt(JOptionPane.showInputDialog(null, "Masukan angka : ",
        "Data array ke-" + i, JOptionPane.QUESTION_MESSAGE));
            num.add(i, isi);
            out += "x[" + i + "]=" + isi + "\n";
            if (max < isi) {
                max = isi;
            }
        }

        int min = max;
        for(int j = 0; j < jml; j++){
            if(num.get(j) < min){
                min = num.get(j);
            }
        }

        out += "Nilai terbesar adalah " + max + "\n";
        out += "Nilai terkecil adalah " + min;
        JOptionPane.showMessageDialog(null, out , "Output Array",
        JOptionPane.INFORMATION_MESSAGE);
    }
}
```



9. Latihan10

```
import java.util.ArrayList;
import javax.swing.JOptionPane;

public class Latihan10 {

    public static void main(String[] args) {

        String out = "";
        ArrayList<String> field = new ArrayList<String>();
        field.add("Nama Lengkap: ");
        field.add("Alamat: ");
        field.add("No Telp: ");
        ArrayList<String> isi = new ArrayList<String>();

        for (int i = 0; i < 3; i++) {
            String in = JOptionPane.showInputDialog(null, field.get(i),
            "Data array ke-" + i, JOptionPane.QUESTION_MESSAGE);
            isi.add(in + "\n");
            out += field.get(i) + isi.get(i);
        }

        JOptionPane.showMessageDialog(null, out, "Output Array",
        JOptionPane.INFORMATION_MESSAGE);
    }
}
```

