

```

package com.ibik.pertemuan4;

public class Latihan02 {
    public static void main(String[] args) {

        int[] num = new int[5];
        num[0] = 20;
        num[1] = 21;
        num[2] = 8;
        num[3] = 25;
        num[4] = 34;

        for (int i = 0; i < num.length; i++) {
            System.out.println("ages[" + i + "] = " + num[i]);
        }
    }
}

```

OUTPUT

```

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

```

3.

```

package com.ibik.pertemuan4;

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);
    }
}

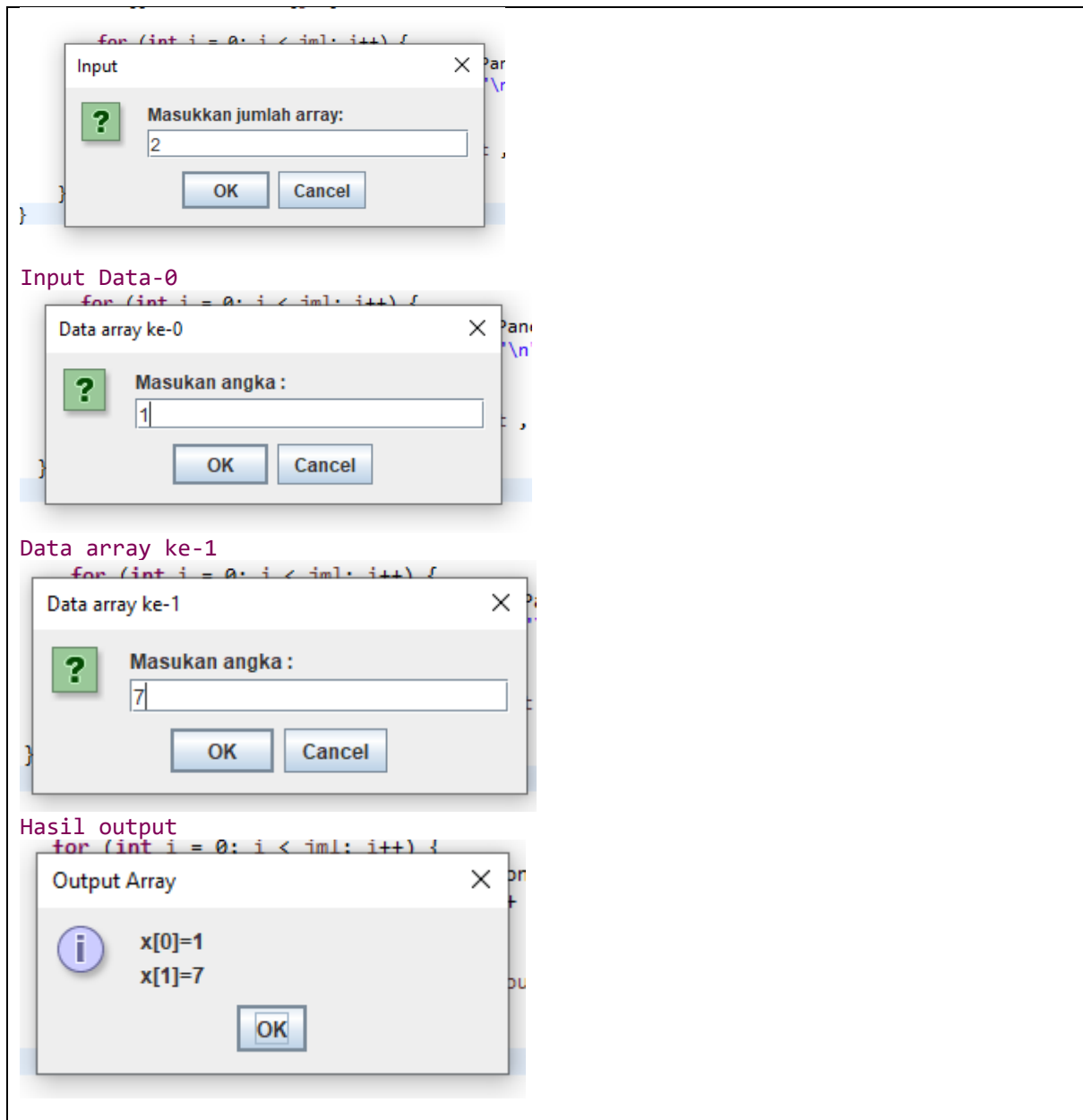
```

OUTPUT

```

Input array

```



4.

```
package com.ibik.pertemuan4;
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++) {
```

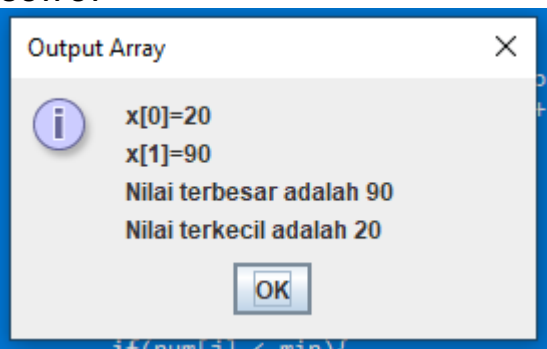
```

        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);
    }
}

```

OUTPUT

5.

```

package com.ibik.pertemuan4;
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];
        }

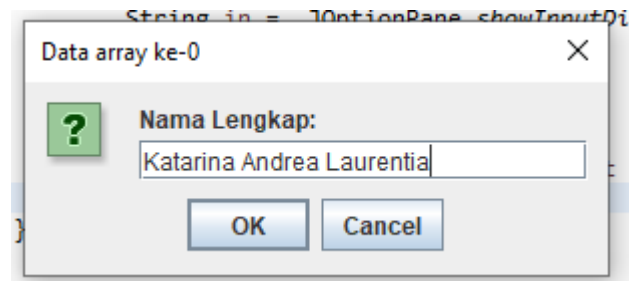
        JOptionPane.showMessageDialog(null, out , "Output Array",
JOptionPane.INFORMATION_MESSAGE);
    }
}

```

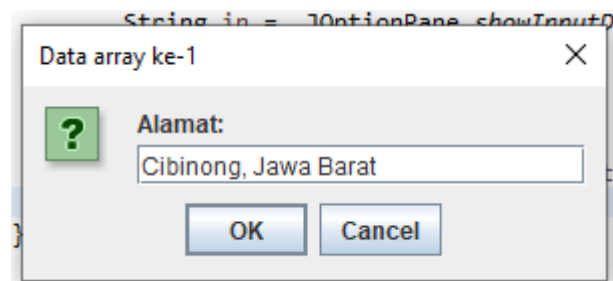
```
}  
}
```

OUTPUT

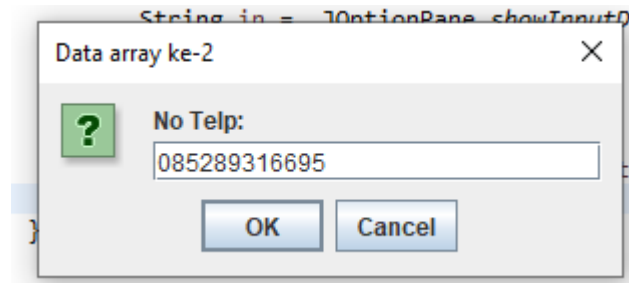
INPUT NAMA LENGKAP



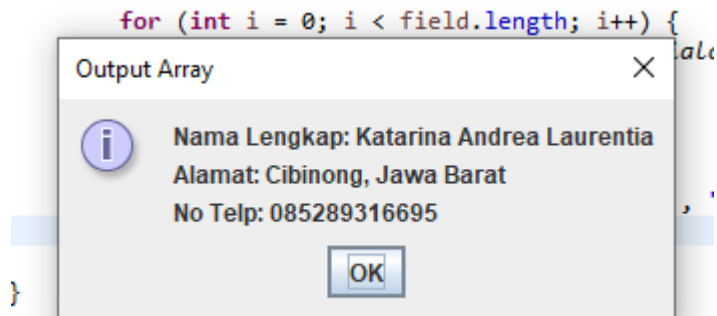
INPUT ALAMAT



INPUT NOMOR TLP



OUTPUT



6.

```
package com.ibik.pertemuan4;  
import javax.swing.JOptionPane;
```

```

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

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

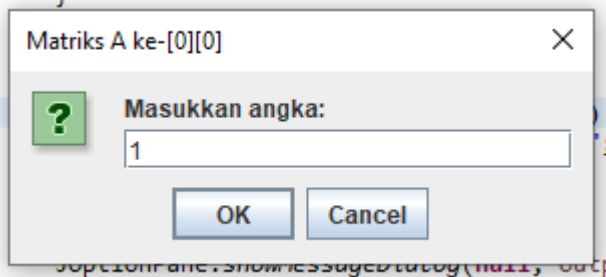
        JOptionPane.showMessageDialog(null, "==== Matriks A ====");
        for(int i =0; i<matriksA.length; i++) {
            for(int j=0; j<matriksA.length; j++) {
                matriksA[i][j] =
Integer.parseInt(JOptionPane.showInputDialog(null,"Masukkan angka: ", "Matriks A
ke-["+i+"]"+"["+j+"]",JOptionPane.QUESTION_MESSAGE));
            }
        }

        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));
            }
        }

        //OUTPUT
        String outputA="Matriks A: \n";
        for(int i=0; i<matriksA.length;i++) {
            for(int j=0;j<matriksA.length; j++) {
                outputA += matriksA[i][j] + " ";
            }
            outputA += "\n";
        }

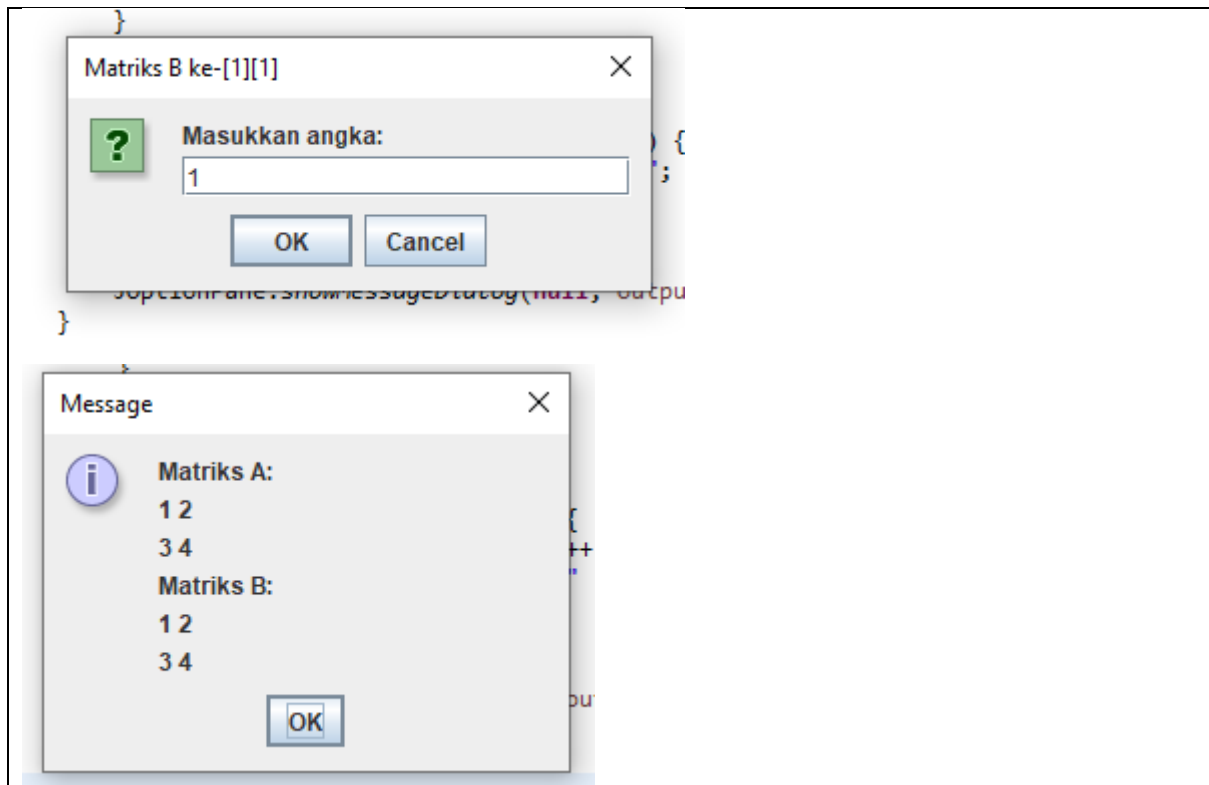
        String outputB="Matriks B: \n";
        for(int i=0; i<matriksB.length;i++) {
            for(int j=0;j<matriksB.length; j++) {
                outputB += matriksB[i][j] + " ";
            }
            outputB += "\n";
        }
        JOptionPane.showMessageDialog(null, outputA+outputB);
    }
}

```



The image displays a sequence of six Java Swing dialog boxes, each with a title bar, a close button (X), and a green question mark icon. Each dialog contains the text "Masukkan angka:" followed by a text input field and "OK" and "Cancel" buttons.

- Matriks A ke-[0][1]**: The input field contains the number 2.
- Matriks A ke-[1][0]**: The input field contains the number 3.
- Matriks A ke-[1][1]**: The input field contains the number 4.
- Matriks B ke-[0][0]**: The input field contains the number 4.
- Matriks B ke-[0][1]**: The input field contains the number 3.
- Matriks B ke-[1][0]**: The input field contains the number 2.



7.

```

package com.ibik.pertemuan4;
import javax.swing.JOptionPane;

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

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

        JOptionPane.showMessageDialog(null, "==== Matriks A ===");
        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));
            }
        }

        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));
            }
        }
    }
}

```

```

JOptionPane.showMessageDialog(null, "==== Hasil ====");
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];
    }
}

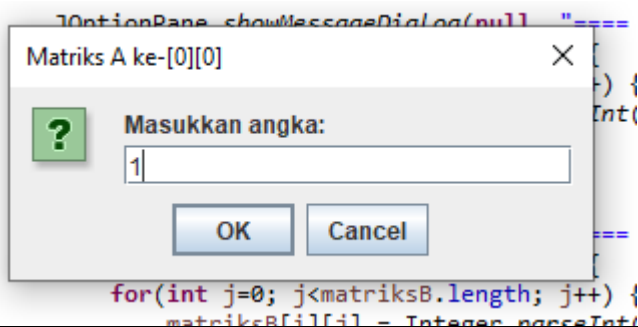
//OUTPUT
String outputA="Matriks A: \n";
for(int i=0; i<matriksA.length;i++) {
    for(int j=0;j<matriksA.length; j++) {
        outputA += matriksA[i][j] + " ";
    }
    outputA += "\n";
}

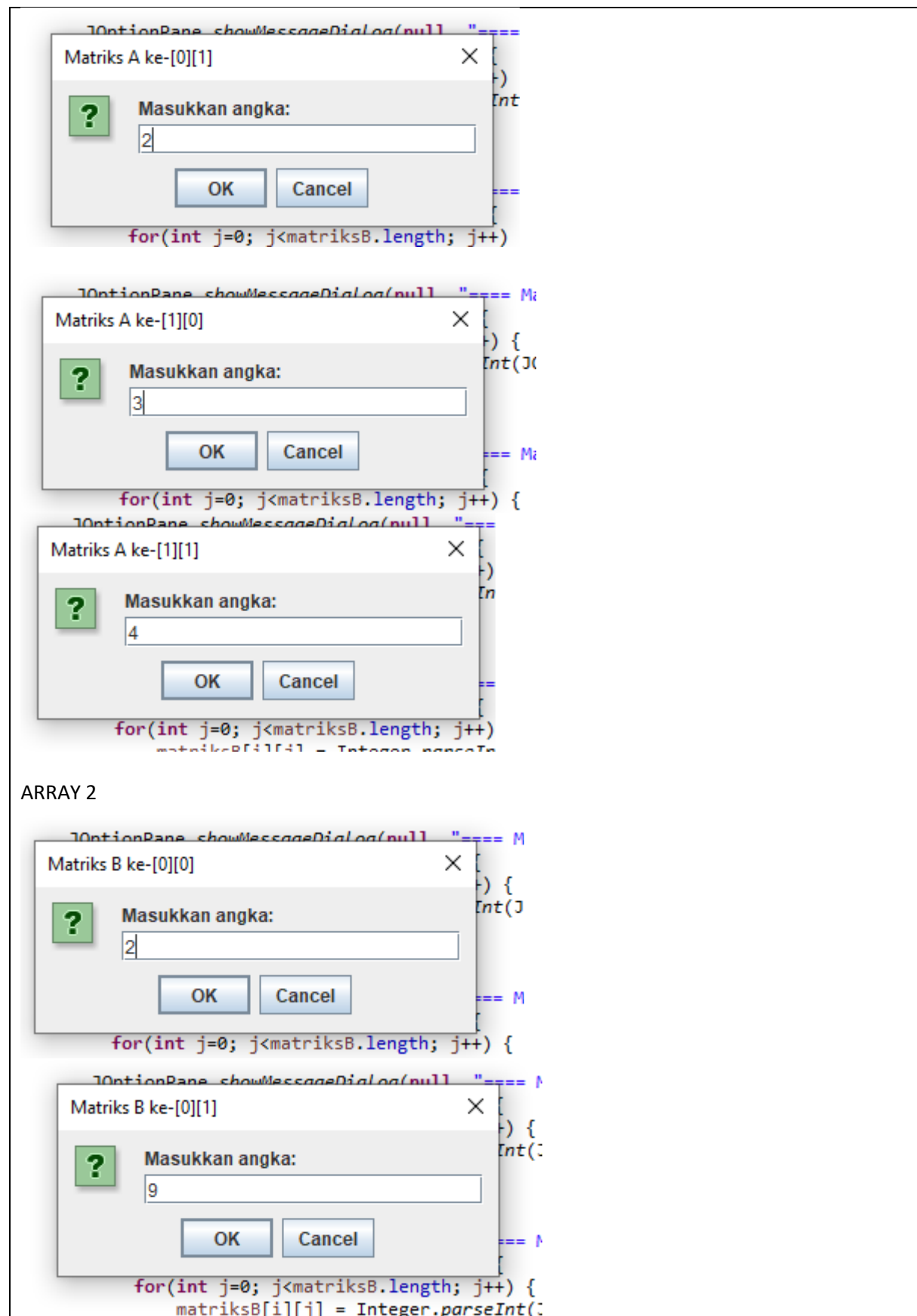
String outputB="Matriks B: \n";
for(int i=0; i<matriksB.length;i++) {
    for(int j=0;j<matriksB.length; j++) {
        outputB += matriksB[i][j] + " ";
    }
    outputB += "\n";
}

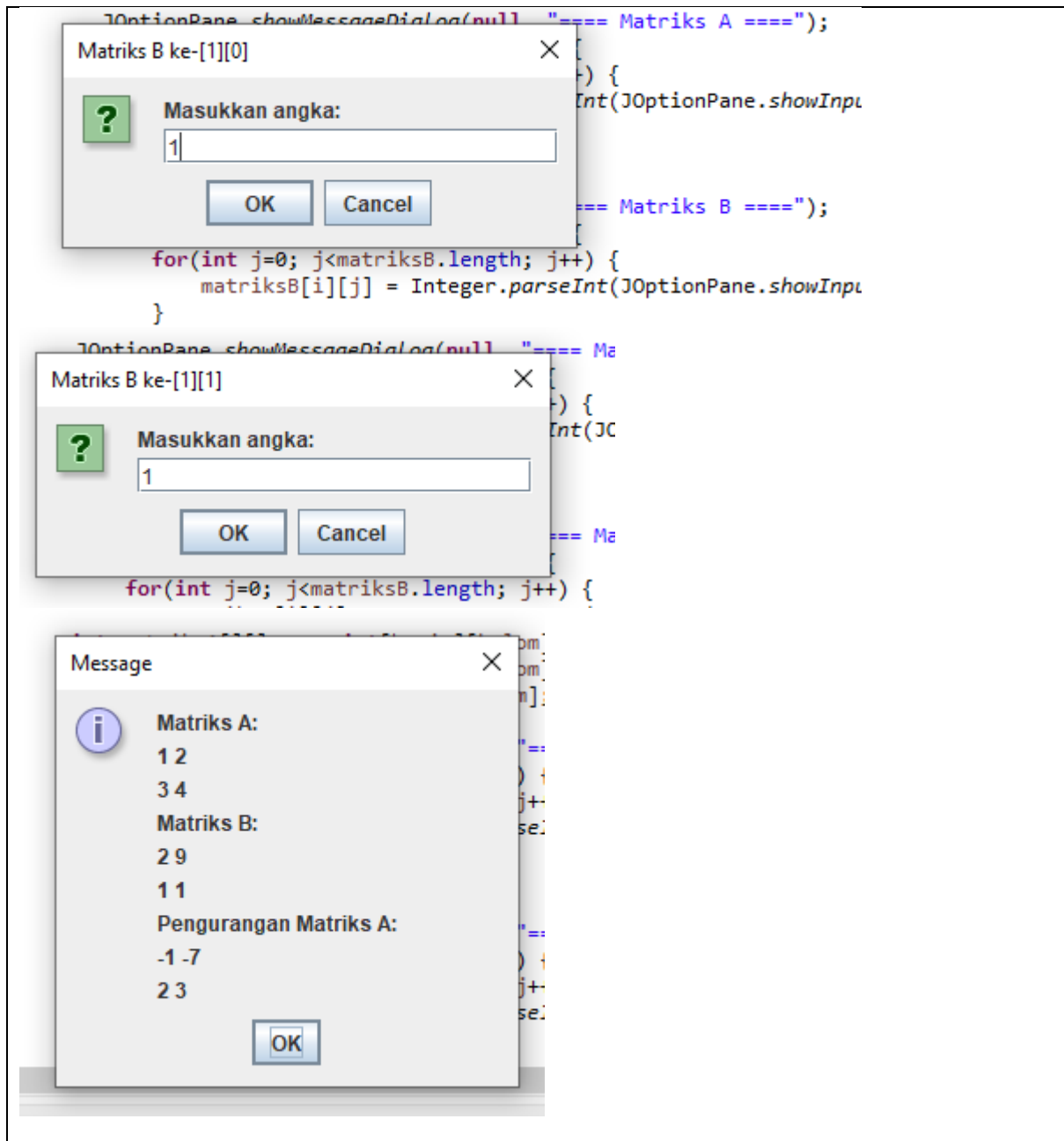
String output1="Pengurangan Matriks A: \n";
for(int i=0; i<hasil1.length;i++) {
    for(int j=0;j<hasil1.length; j++) {
        output1 += hasil1[i][j] + " ";
    }
    output1 += "\n";
}
JOptionPane.showMessageDialog(null, outputA+outputB+output1);
}
}

```

ARRAY - 1







8.

```
import javax.swing.JOptionPane;
```

```
public class Latihan08 {
```

```

    public static void main(String[] args) {
        int baris = 3, kolom = 4;
        int end = 0, m = 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: ";
    }
}

```

```

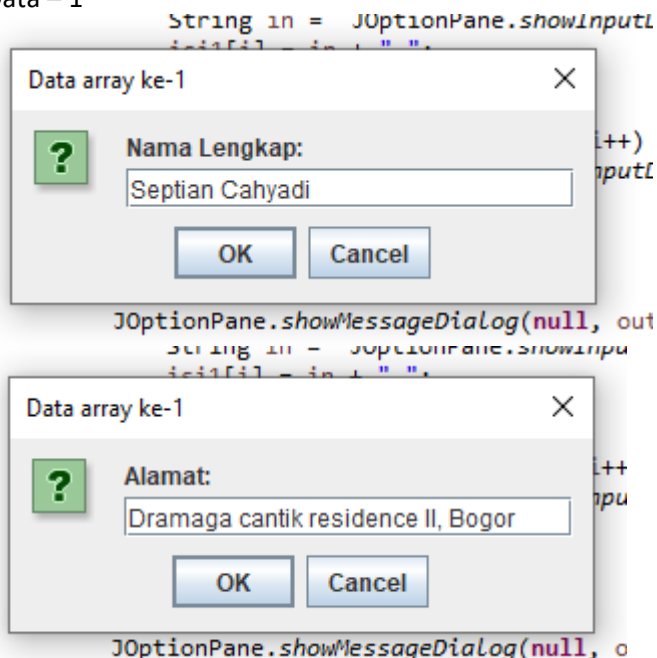
//INPUT & OUTPUT
for(int i = 0; i < baris; i++) {
    output += input[i][0];
    for(int j = m; j < e; j++) {
        input[i][j] = JOptionPane.showInputDialog(null,
input[i][0], "Data Array ke-" + i + "]" + "[" + j + "]", JOptionPane.QUESTION_MESSAGE);

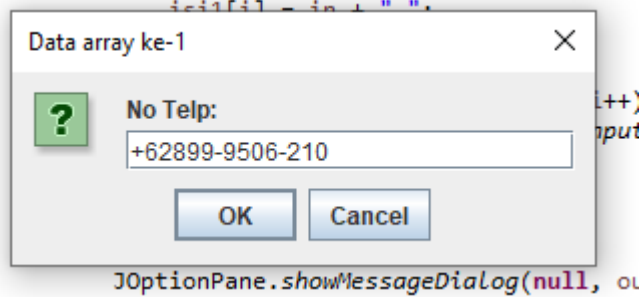
        output += input[i][j] + "\n";
    }
    //restart loop
    if (i == baris - 1) {
        output += "\n";
        i = -1;
        m = m+1;
        e = e+1;
        end = end+1;
        if (end == 3) {
            i = baris;
        }
    }
}

JOptionPane.showMessageDialog(null, output);
}
}

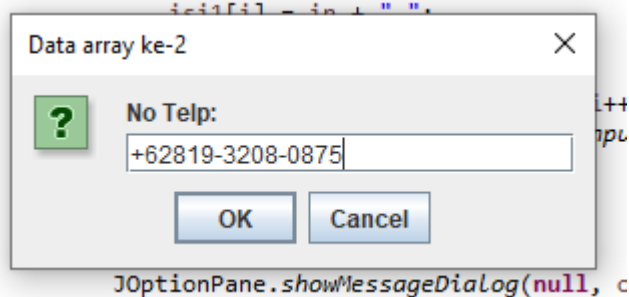
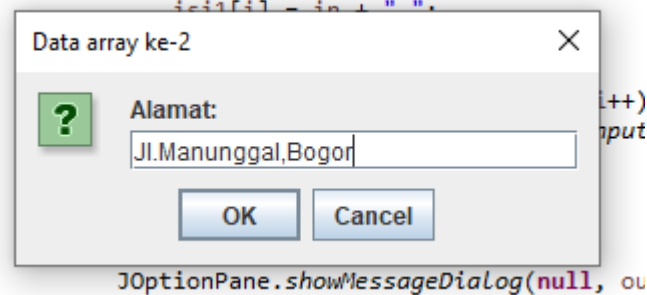
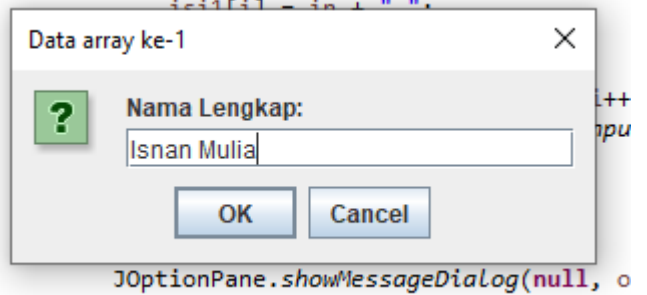
```

Data – 1

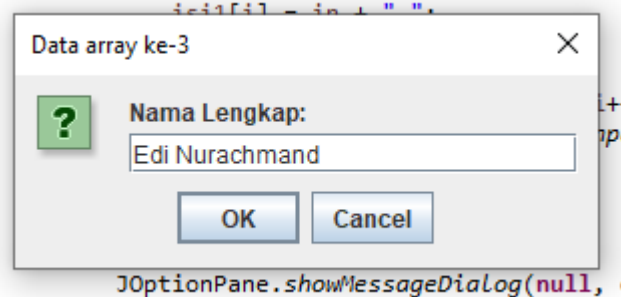


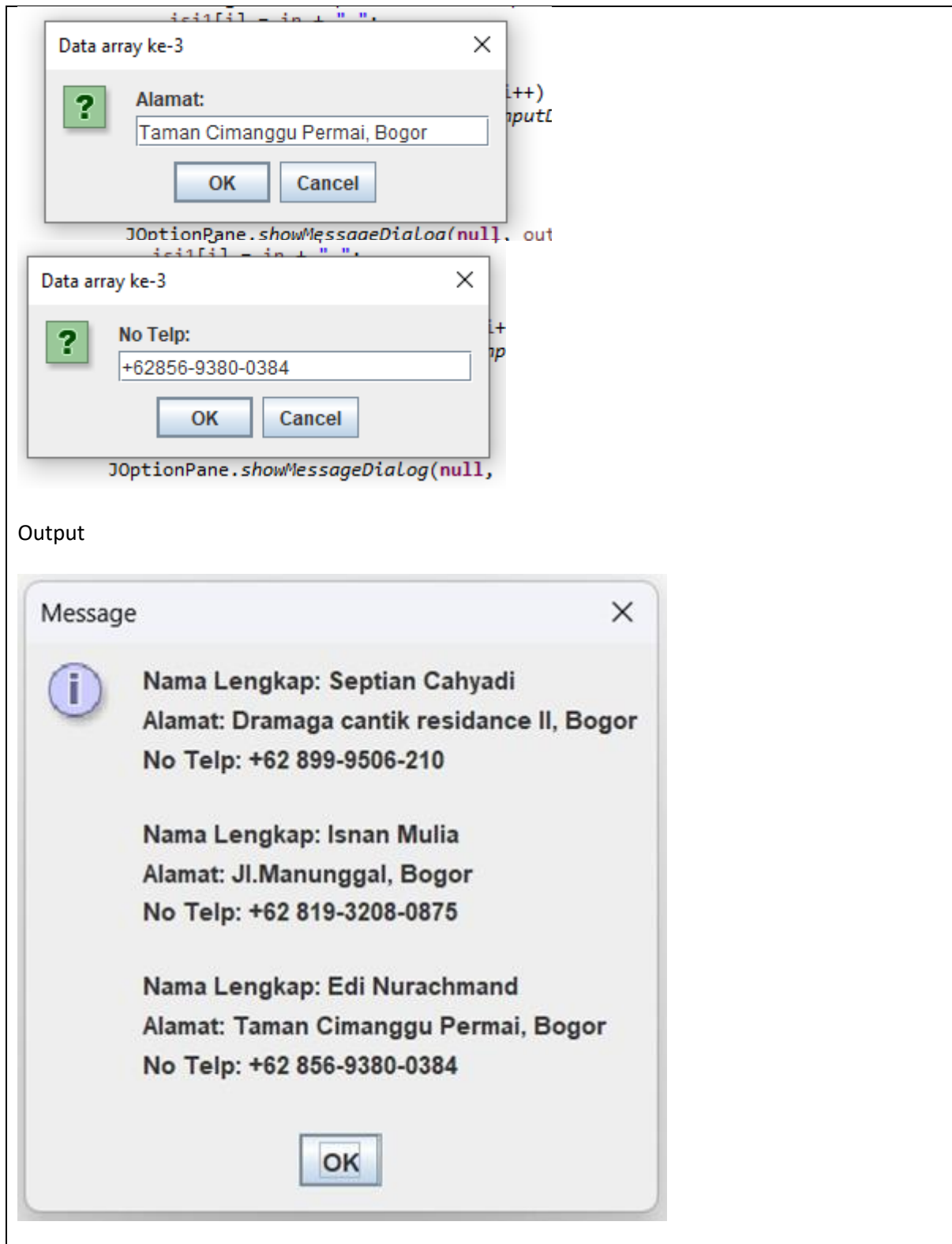


Data ke-2



Data ke – 3





9.

```
package com.ibik.pertemuan4;
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;
        }
    }

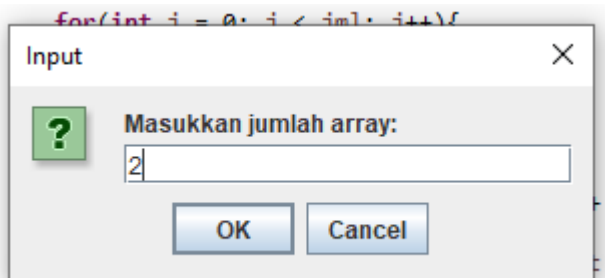
    int min = max;
    for(int j = 0; j < jml; j++){
        if(num.get(j) < min){
            min = num.get(j);
        }
    }

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

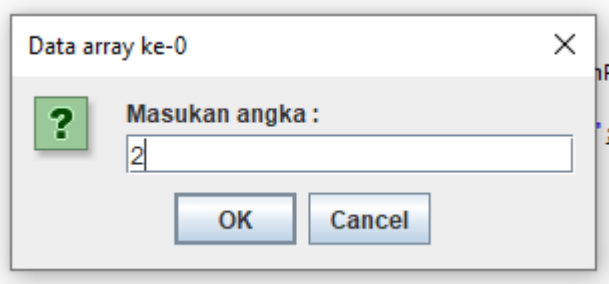
    }
}

```

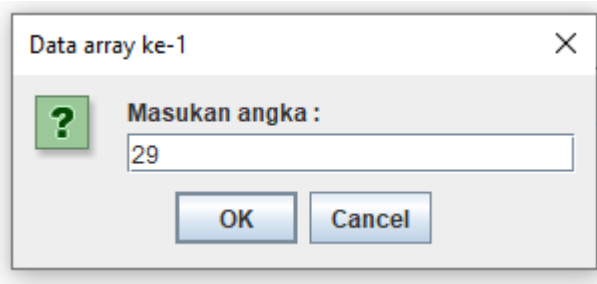
INPUT ARRAY



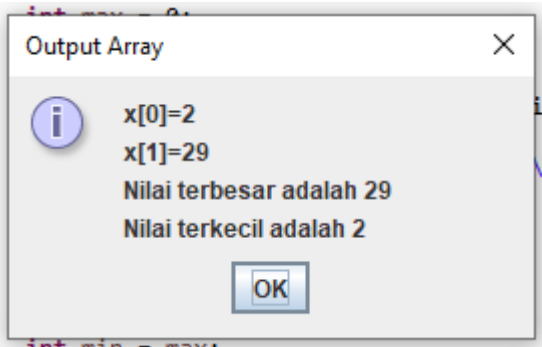
MASUKAN ARRAY KE-0



MASUKAN ARRAY KE-1



OUTPUT



10.

```
package com.ibik.pertemuan4;
import java.util.ArrayList;
import javax.swing.JOptionPane;

public class Latihan10 {

    public static void main(String[] args) {

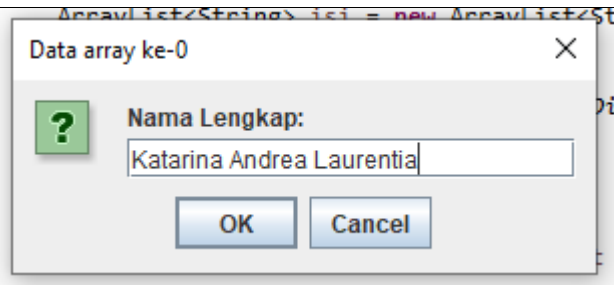
        String out = "";
        ArrayList<String> field = new ArrayList<String>();
        field.add("Nama Lengkap: ");
        field.add("Alamat: ");
        field.add("No Telp: ");
        ArrayList<String> isi = new ArrayList<String>();

        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);
    }
}
```

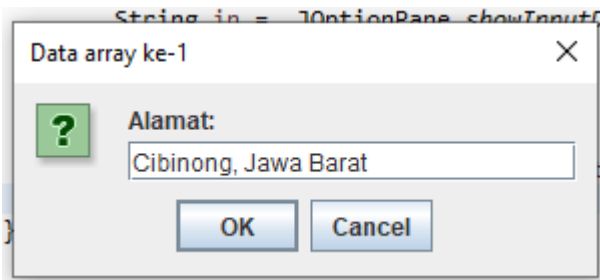
INPUT NAMA LENGKAP

```
ArrayList<String> isi = new ArrayList<String>();
```



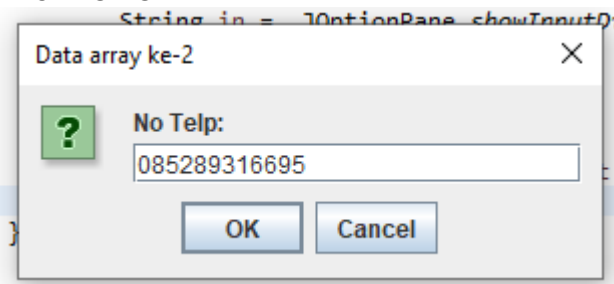
ALAMAT

```
String in = JOptionPane.showInputDialog();
```



INPUT NOMOR TLP

```
String in = JOptionPane.showInputDialog();
```



OUTPUT

```
for (int i = 0; i < field.length; i++) {
```

