Latihan 02 Source Code:

```java
package praktikum_04_Array;


public class Latihan02 {

    public static void main(String[] args) {

        int [] x = new int[5];

        x[1]=1;
        x[2]=1;
        x[3]=1;
        x[4]=1;

        for(int i = 1 ; i <5; i++) {
        System.out.println("Data ke - " + i + " = " + x[i]);

        }


    }


}
```

Hasil:

```
Data ke - 1 = 1
Data ke - 2 = 1
Data ke - 3 = 1
Data ke - 4 = 1
```

Latihan 03 Source Code:

```java
package praktikum_04_Array;
import javax.swing.JOptionPane;

public class Latihan03 {

    public static void main(String[] args) {
        String input = JOptionPane.showInputDialog(null, "Masukkan jumlah array");
        int parseInput= Integer.parseInt(input);
        int x[] = new int[parseInput];

        for(int i = 0; i < x.length; i++) {
            String inputArray = JOptionPane.showInputDialog(null,
"Masukkan input array ke - " + (i + 1), "Data ke - " + (i + 1) ,
JOptionPane.QUESTION_MESSAGE);
            int pArray = Integer.parseInt(inputArray);
            x[i] = pArray;
        }

        String output = "";
```
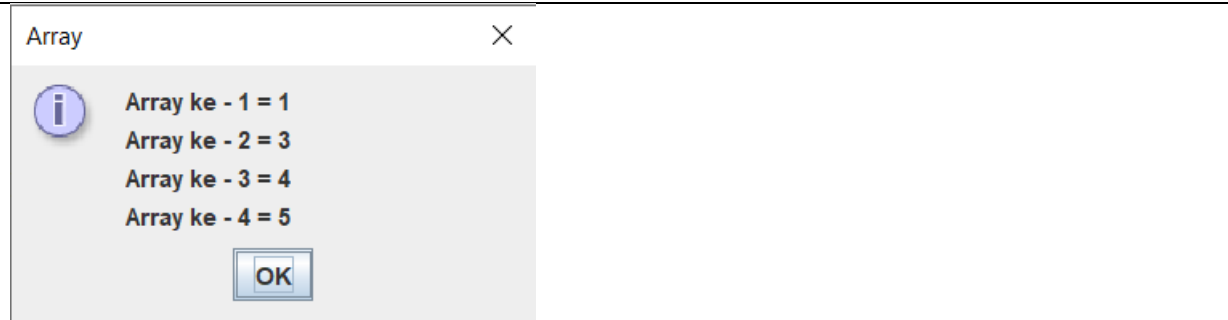
```
            for(int j = 0; j < x.length; j++) {
                    output += "Array ke - " + (j + 1) + " = " + x[j] + "\n";

            }

            JOptionPane.showMessageDialog(null, output, "Array",
JOptionPane.INFORMATION_MESSAGE);

        }

}
```

Hasil:

Latihan 04 Source Code:

```
package praktikum_04_Array;
import javax.swing.JOptionPane;

public class Latihan04 {

        public static void main(String[] args) {


                String input = JOptionPane.showInputDialog(null, "Masukkan jumlah
array");
                int parseInput= Integer.parseInt(input);
                int x[] = new int[parseInput];

                for(int i = 0; i < x.length; i++) {
                        String inputArray = JOptionPane.showInputDialog(null,
"Masukkan input array ke - " + (i + 1), "Data ke - " + (i + 1) ,
JOptionPane.QUESTION_MESSAGE);
                        int pArray = Integer.parseInt(inputArray);
                        x[i] = pArray;
                }

                String output = "";


                if (x == null || x.length <1)
                        return;
                int min = x[0];
                int max = x[0];


                for(int j = 0; j < x.length; j++) {
                        output += "Array ke - " + (j + 1) + " = " + x[j] + "\n";
```

```
                if (max < x[j]) {
                        max = x[j];
                }

                if(min > x[j]) {
                        min = x[j];
                }


        }

        output += "\nMin = " + min + "\n" + "Max = " + max + "\n";

        JOptionPane.showMessageDialog(null, output, "Array",
JOptionPane.INFORMATION_MESSAGE);

    }

}
```

Hasil:

Latihan 05 Source Code:

```
package praktikum_04_Array;
import javax.swing.JOptionPane;

public class Latihan05 {

    public static void main(String[] args) {

            String field[] = {"Nama Lengkap", "Alamat", "No Telp"};
            String output = " ";


            for (int i = 0; i < field.length; i++) {
            String input =  JOptionPane.showInputDialog(null, "Masukkan " +
field[i] + ":", "Data Array ke-" + i, JOptionPane.QUESTION_MESSAGE);
                output += field[i] + ":" + " " + input + "\n";

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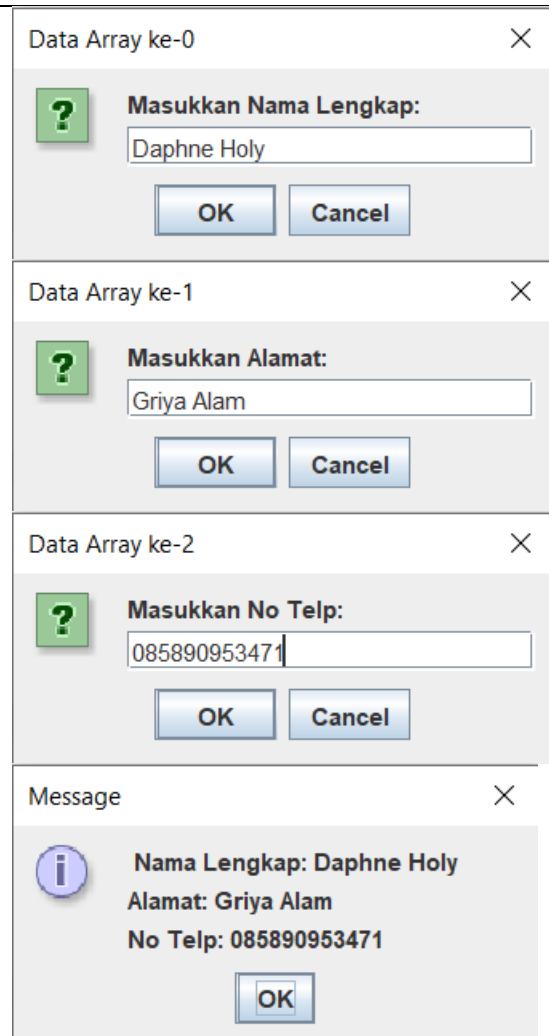
```
                    JOptionPane.showMessageDialog(null, output);


        }
}
```

Hasil:

Latihan 06 Source Code:

```java
package praktikum_04_Array;
import javax.swing.JOptionPane;

public class Latihan06 {

    public static void main(String[] args) {
        int arr[][] = new int[2][2];
        JOptionPane jop = new JOptionPane();
        String output = "Matriks A" + "\n";

        for(int i = 0; i < arr.length; i++) {
            for(int j = 0; j < arr.length; j++) {
                String a = jop.showInputDialog(null, "Masukkan angka:",
"Matrix A" + "[" + i + "]" + "[" + j + "]", jop.QUESTION_MESSAGE);
                output += Integer.parseInt(a) + " ";
```

```
                }
                    output += "\n";
            }

            output += "Matriks B" + "\n";
            for(int i = 0; i < arr.length; i++) {
                for(int j = 0; j < arr.length; j++) {
                    String b = jop.showInputDialog(null, "Masukkan angka:",
"Matrix B" + "[" + i + "]" + "[" + j + "]", jop.QUESTION_MESSAGE);
                    output += Integer.parseInt(b) + " ";
                }
                    output += "\n";
            }

            jop.showMessageDialog(null, output);
        }

    }
```
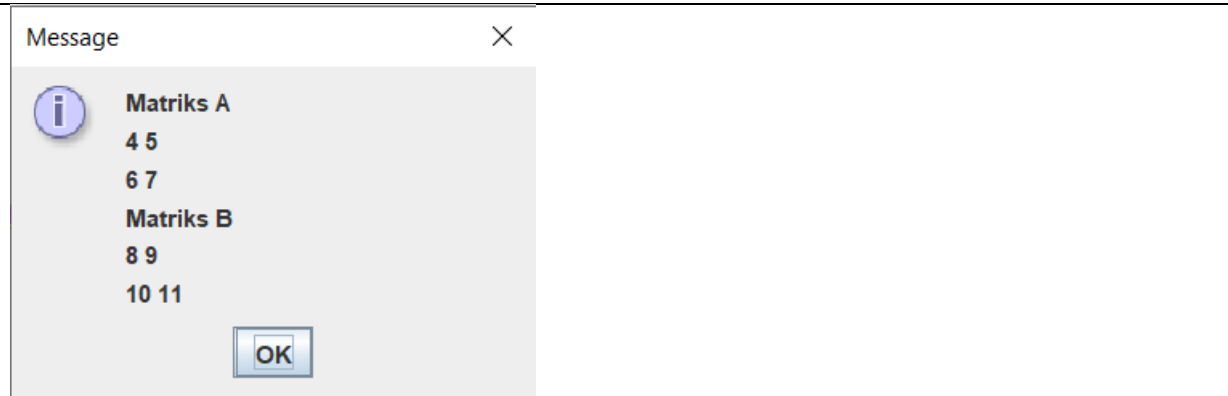
Hasil:

Message   ✕

   (i)   **Matriks A**

4 5

6 7

Matriks B

8 9

10 11

`OK`

Latihan 07 Source Code:

```
package praktikum_04_Array;
import javax.swing.JOptionPane;

public class Latihan07 {

    public static void main(String[] args) {
        int arr[][] = new int[2][2];
        int arr1[][] = new int[2][2];
        int arr2[][] = new int[2][2];
        JOptionPane jop = new JOptionPane();
        String output = "Matriks A" + "\n";

        for(int i = 0; i < arr.length; i++) {
            for(int j = 0; j < arr.length; j++) {
                String a = jop.showInputDialog(null, "Masukkan angka:",
"Matrix A" + "[" + i + "]" + "[" + j + "]", jop.QUESTION_MESSAGE);
                arr[i][j] = Integer.parseInt(a);
                output += arr[i][j] + " ";
                arr2[i][j] = arr[i][j];
            }
            output += "\n";
        }

        output += "Matriks B" + "\n";
```

```java
            for(int i = 0; i < arr.length; i++) {
                for(int j = 0; j < arr.length; j++) {
                    String b = jop.showInputDialog(null, "Masukkan angka:",
"Matrix B" + "[" + i + "]" + "[" + j + "]", jop.QUESTION_MESSAGE);
                    arr1[i][j] = Integer.parseInt(b);
                    arr2[i][j] -= arr1[i][j];
                    output += arr1[i][j] + " ";
                }
                output += "\n";
            }

            output += "Matriks C" + "\n";
            for(int i = 0; i < arr.length; i++) {
                for(int j = 0; j < arr.length; j++) {
                    output += arr2[i][j] + " ";
                }
                output += "\n";
            }

            jop.showMessageDialog(null, output);
        }


}
```
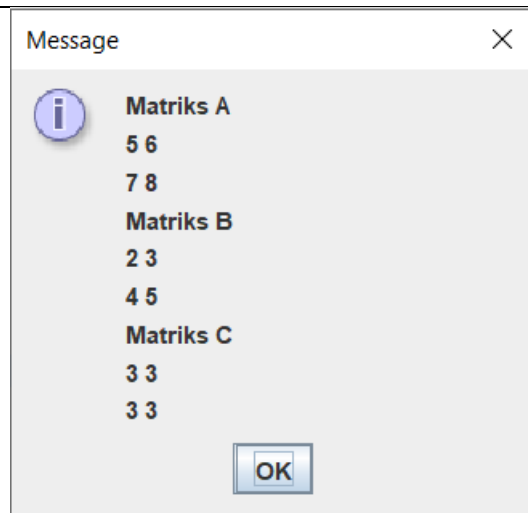
Hasil:

```
Message                              X

  i    Matriks A
       5 6
       7 8
       Matriks B
       2 3
       4 5
       Matriks C
       3 3
       3 3

            [ OK ]
```

Latihan 08 Source Code:

```java
package praktikum_04_Array;
import javax.swing.JOptionPane;

public class Latihan08 {

    public static void main(String[] args) {

        String field[][] = new String[3][3];
        JOptionPane jop = new JOptionPane();
        String output = "";

        field[0][0] = "Nama Lengkap";
        field[0][1] = "Alamat";
```

```java
            field[0][2] = "No Telp";

            for(int i = 0; i < field.length; i++) {
                    output += field[0][i] + " ";
            }

            output += "\n";

            for(int i = 0; i < field.length; i++) {
                    for(int j = 0; j < field.length; j++) {
                            String isi = jop.showInputDialog(null, "Masukkan " +
field[0][j] + ":", "Data array ke-" + i, jop.QUESTION_MESSAGE);
                            output += field[1][j] = "  |  "  + isi ;
                    }
                    output += "\n";
            }

            jop.showMessageDialog(null, output);

        }

}
```
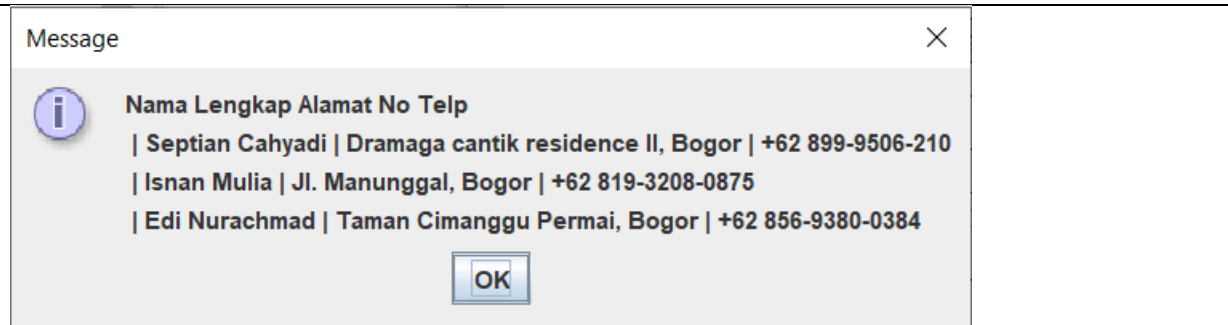
Hasil:

Message	X
ℹ	**Nama Lengkap Alamat No Telp**
	| Septian Cahyadi | Dramaga cantik residence II, Bogor | +62 899-9506-210
	| Isnan Mulia | Jl. Manunggal, Bogor | +62 819-3208-0875
	| Edi Nurachmad | Taman Cimanggu Permai, Bogor | +62 856-9380-0384
	OK

Latihan 09 Source Code:

```java
package praktikum_04_Array;
import java.util.ArrayList;
import javax.swing.JOptionPane;

public class Latihan09 {

    public static void main(String[] args) {

JOptionPane jop = new JOptionPane();

            int jumlah_arr = Integer.parseInt(jop.showInputDialog(null,
"Masukkan jumlah array:", "Input", jop.QUESTION_MESSAGE));
            ArrayList<Integer> arr = new ArrayList<Integer>();
            String output = "";
            int min = 0,max = 0;

            for(int i = 0; i < jumlah_arr; i++) {
                    int value_arr =
Integer.parseInt(jop.showInputDialog(null, "Masukkan angka:", "Data array
```

```
ke - " + i, jop.QUESTION_MESSAGE));
                arr.add(value_arr);
                output += "x" + "[" + i + "]" + " = " + arr.get(i) +
"\n";
            }

            for(int i = 0; i < jumlah_arr; ++i) {
                if(arr.get(0) > arr.get(i)) {
                    min = arr.get(i);
                }else if(arr.get(0) < arr.get(i)) {
                    max = arr.get(i);
                }
            }

            jop.showMessageDialog(null, output + "Nilai terkecil adalah =
" + min + "\nNilai terbesar adalah = " + max, "Output Array",
jop.INFORMATION_MESSAGE);
        }

    }
```
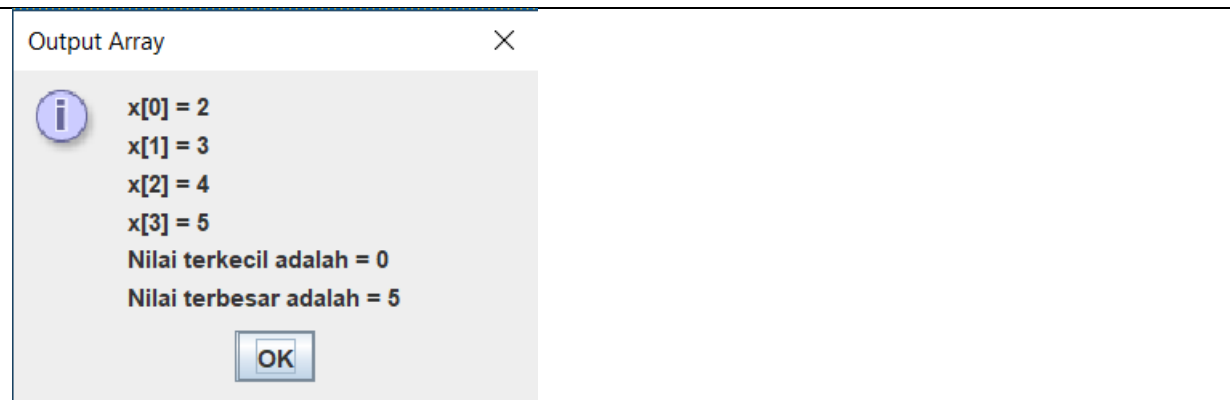
Hasil:

Latihan 10 Source Code:

```
package praktikum_04_Array;
import java.util.ArrayList;
import javax.swing.JOptionPane;

public class Latihan10 {

        public static void main(String[] args) {

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

                JOptionPane jop = new JOptionPane();
                String output = "";
```

```
        for(int i = 0; i < field.size(); i++) {
                String isi = jop.showInputDialog(null, "Masukkan " + field.get(i) + ":", "Data
array ke-" + i, jop.QUESTION_MESSAGE);
                output += field.get(i) + ":" + " " + isi + "\n";
        }

        jop.showMessageDialog(null, output);
    }

}
```

Hasil:

Message ✕

ⓘ **Nama Lengkap: Daphne Holy**
   Alamat: Griya Alam
   No Telp: 085890953471

   OK