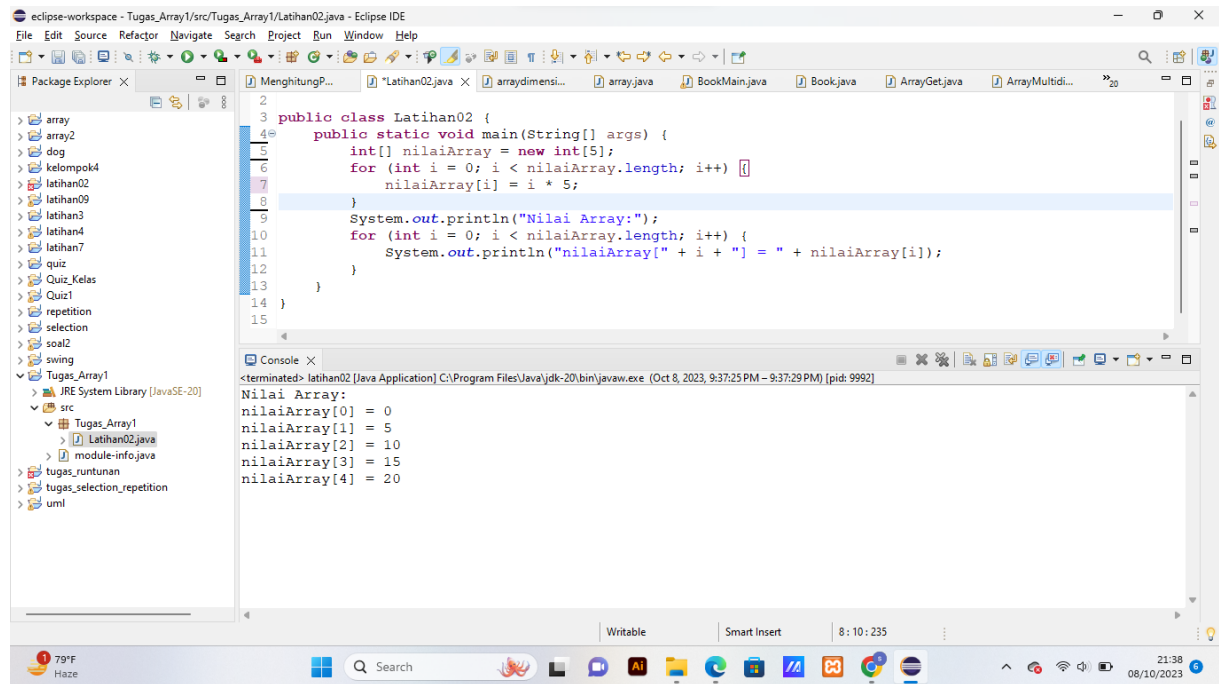


**NAMA: SITI ROHMAH**

**NPM: 222310054**

**KELAS: TI-22-PB**

## Latihan02



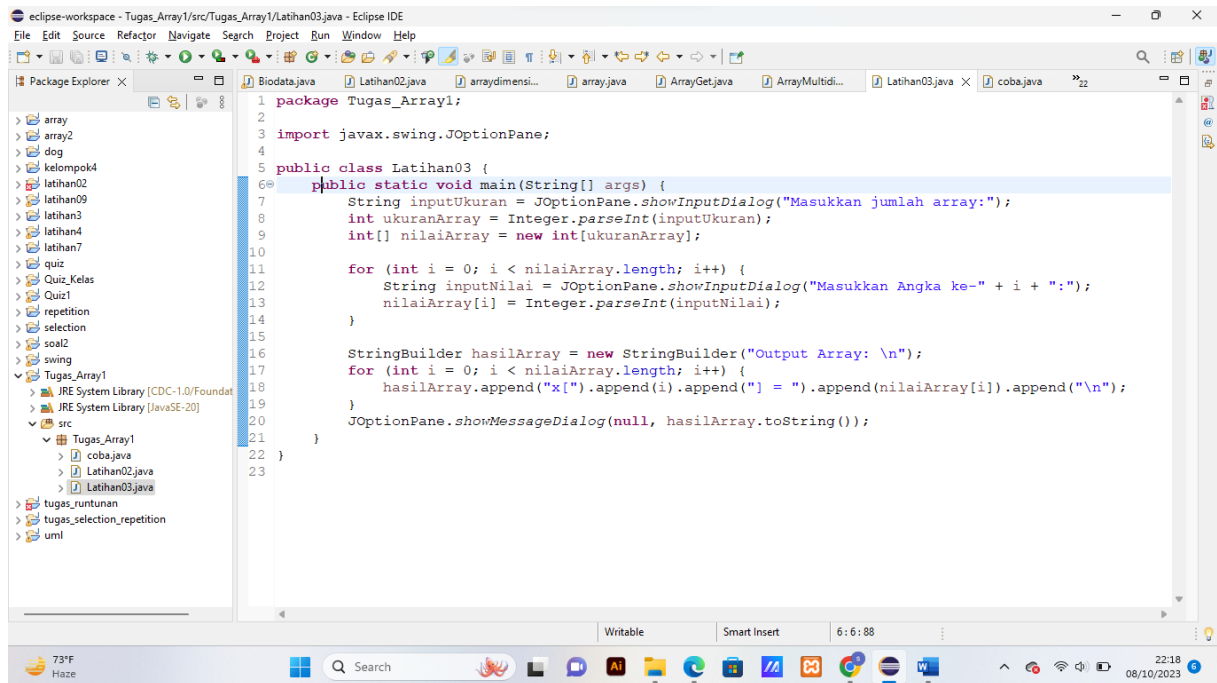
The screenshot shows the Eclipse IDE interface. The Package Explorer on the left displays a project structure with a package named 'array' containing several files, including 'Latihan02.java'. The main editor window shows the source code of 'Latihan02.java'. The code defines a public class 'Latihan02' with a 'main' method. Inside the 'main' method, an integer array 'nilaiArray' of size 5 is created. A 'for' loop iterates from 0 to 4, assigning values to the array elements: 0, 5, 10, 15, and 20. The array is then printed to the console. The Console window at the bottom shows the output of the program, displaying the array elements in a formatted manner.

```
2  
3 public class Latihan02 {  
4     public static void main(String[] args) {  
5         int[] nilaiArray = new int[5];  
6         for (int i = 0; i < nilaiArray.length; i++) {  
7             nilaiArray[i] = i * 5;  
8         }  
9         System.out.println("Nilai Array:");  
10        for (int i = 0; i < nilaiArray.length; i++) {  
11            System.out.println("nilaiArray[" + i + "] = " + nilaiArray[i]);  
12        }  
13    }  
14 }  
15
```

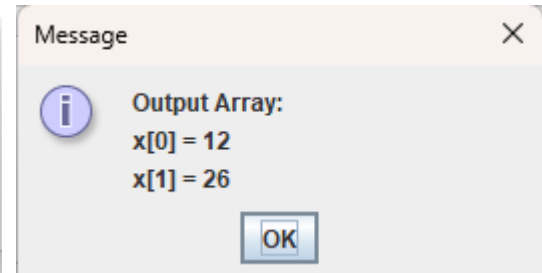
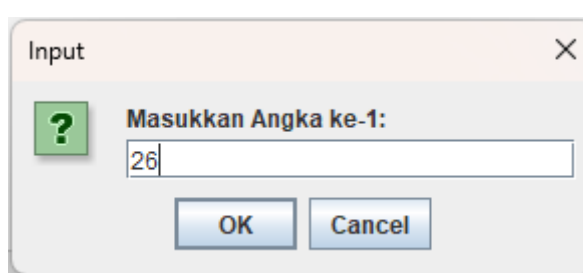
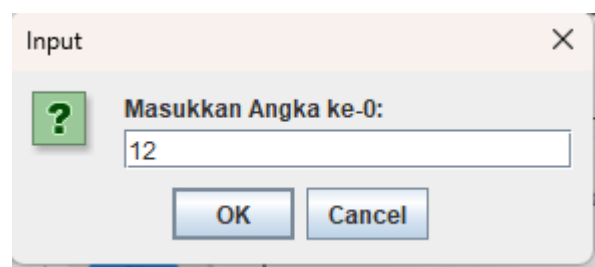
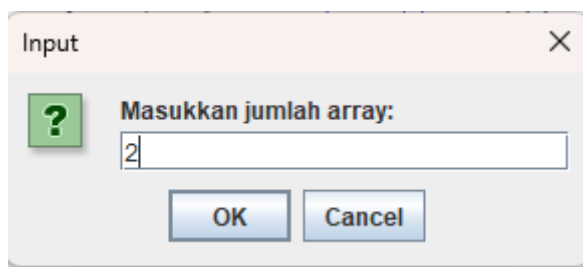
Console Output:

```
<terminated> latihan02 [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Oct 8, 2023, 9:37:25 PM - 9:37:29 PM) [pid: 9992]  
Nilai Array:  
nilaiArray[0] = 0  
nilaiArray[1] = 5  
nilaiArray[2] = 10  
nilaiArray[3] = 15  
nilaiArray[4] = 20
```

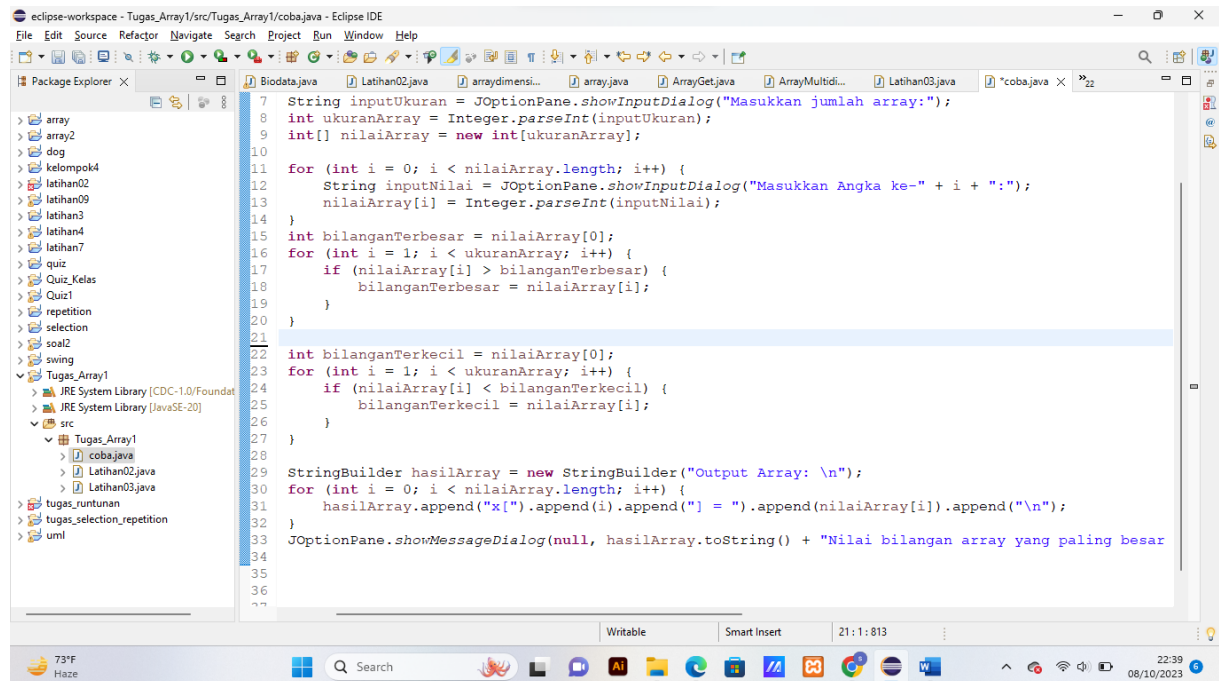
## Latihan 03



```
1 package Tugas_Array1;
2
3 import javax.swing.JOptionPane;
4
5 public class Latihan03 {
6     public static void main(String[] args) {
7         String inputUkuran = JOptionPane.showInputDialog("Masukkan jumlah array:");
8         int ukuranArray = Integer.parseInt(inputUkuran);
9         int[] nilaiArray = new int[ukuranArray];
10
11         for (int i = 0; i < nilaiArray.length; i++) {
12             String inputNilai = JOptionPane.showInputDialog("Masukkan Angka ke-" + i + ":");
13             nilaiArray[i] = Integer.parseInt(inputNilai);
14         }
15
16         StringBuilder hasilArray = new StringBuilder("Output Array: \n");
17         for (int i = 0; i < nilaiArray.length; i++) {
18             hasilArray.append("x[" + i + "] = ").append(nilaiArray[i]).append("\n");
19         }
20         JOptionPane.showMessageDialog(null, hasilArray.toString());
21     }
22 }
23
```

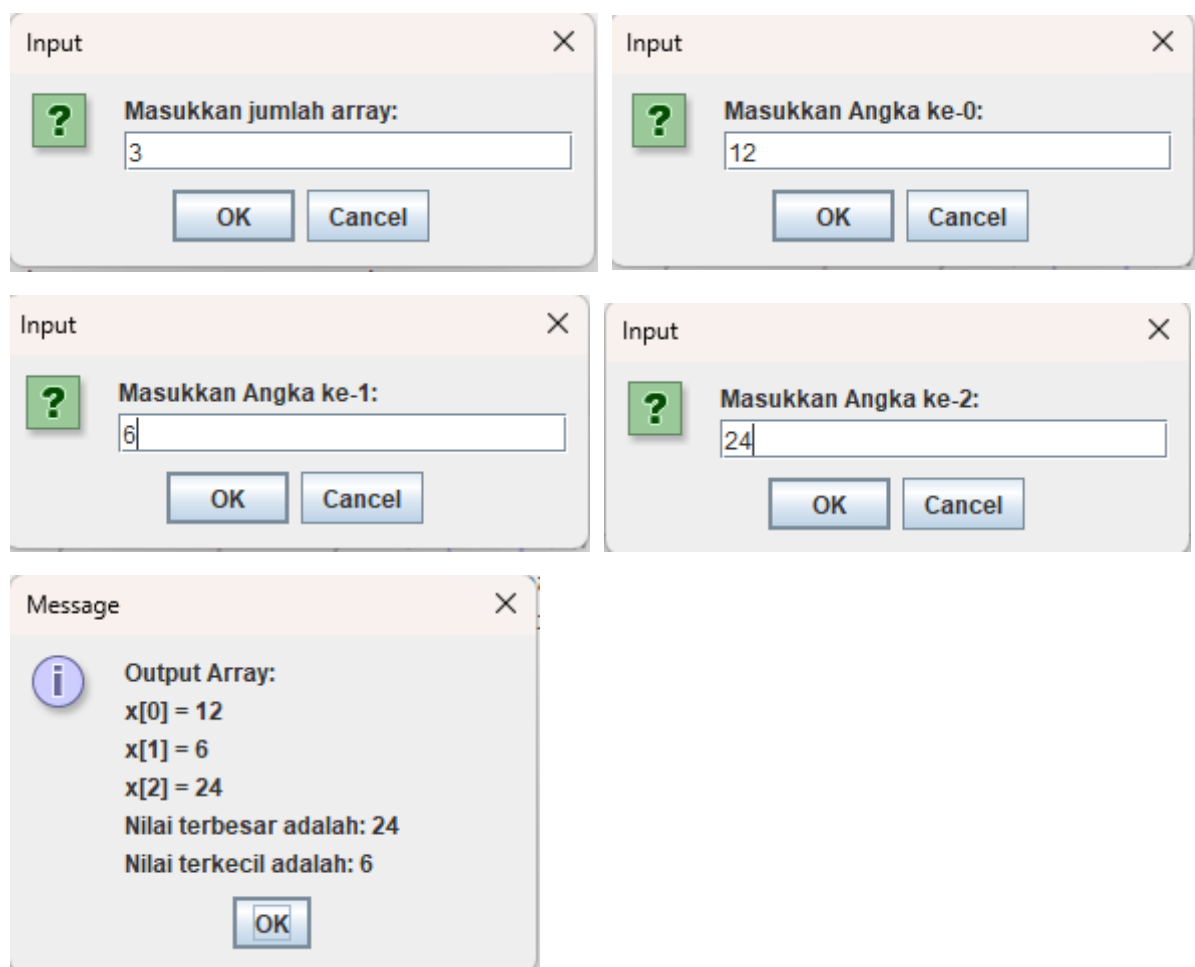


## Latihan04



The screenshot shows the Eclipse IDE with a Java project named 'Tugas\_Array1'. The source code in 'cobajava.java' is as follows:

```
7 String inputUkuran = JOptionPane.showInputDialog("Masukkan jumlah array:");
8 int ukuranArray = Integer.parseInt(inputUkuran);
9 int[] nilaiArray = new int[ukuranArray];
10
11 for (int i = 0; i < nilaiArray.length; i++) {
12     String inputNilai = JOptionPane.showInputDialog("Masukkan Angka ke-" + i + ":");
13     nilaiArray[i] = Integer.parseInt(inputNilai);
14 }
15 int bilanganTerbesar = nilaiArray[0];
16 for (int i = 1; i < ukuranArray; i++) {
17     if (nilaiArray[i] > bilanganTerbesar) {
18         bilanganTerbesar = nilaiArray[i];
19     }
20 }
21
22 int bilanganTerkecil = nilaiArray[0];
23 for (int i = 1; i < ukuranArray; i++) {
24     if (nilaiArray[i] < bilanganTerkecil) {
25         bilanganTerkecil = nilaiArray[i];
26     }
27 }
28
29 StringBuilder hasilArray = new StringBuilder("Output Array: \n");
30 for (int i = 0; i < nilaiArray.length; i++) {
31     hasilArray.append("x[" + i + "] = ").append(nilaiArray[i]).append("\n");
32 }
33 JOptionPane.showMessageDialog(null, hasilArray.toString() + "Nilai bilangan array yang paling besar");
34
35
36
37
```



## 4Latihan05

```
eclipse-workspace - Tugas_Array1/src/Tugas_Array1/cobajava - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
array
array2
dog
kelompok4
latihan02
latihan03
latihan04
latihan05
latihan06
latihan07
quiz
Quiz_Kelas
Quiz1
repetition
selection
soal2
swing
Tugas_Array1
  JRE System Library [CDC-1.0/Foundation 1.0]
  JRE System Library [JavaSE-20]
  Tugas_Array1
    src
      cobajava
      Latihan02.java
      Latihan03.java
      Latihan04.java
      Latihan05.java
  tugas_rununan
  tugas_selection_repetition
  umi

1 Tugas_Array1;
2
3 javax.swing.JOptionPane;
4
5 class coba {
6     static void main(String[] args) {
7         JOptionPane jop = new JOptionPane();
8         String field[] = {"Nama Lengkap", "Alamat", "No Telp"};
9         field[0] = jop.showInputDialog(null, "Masukan Nama Lengkap anda: ");
10        System.out.println(field[0]);
11        field[1] = jop.showInputDialog("Masukan Alamat anda: ");
12        System.out.println(field[1]);
13        field[2] = jop.showInputDialog("Masukan No Telp anda: ");
14        System.out.println(field[2]);
15
16        JOptionPane.showMessageDialog(null, "Nama Lengkap: " + field[0] + "\nAlamat: " + field[1] + "\nNo Telp: " + field[2]);
17    }
18 }
19
20
21
```

Input

Masukan Nama Lengkap anda:

Siti Rohmah

OK Cancel

Input

Masukan Alamat anda:

jalan suka bakti desa palasari

OK Cancel

Input

Masukan No Telp anda:

088289774807

OK Cancel

Message

Nama Lengkap: Siti Rohmah  
Alamat: jalan suka bakti desa palasari  
No Telp: 088289774807

OK

## Latihan06

```
7 int[][] matrix1 = new int[2][2];
8 int[][] matrix2 = new int[2][2];
9
10 for (int i = 0; i < 2; i++) {
11     for (int j = 0; j < 2; j++) {
12         String input = JOptionPane.showInputDialog("Masukkan nilai matriks A [" + i + "][" + j + "]:");
13         matrix1[i][j] = Integer.parseInt(input);
14     }
15 }
16
17 for (int i = 0; i < 2; i++) {
18     for (int j = 0; j < 2; j++) {
19         String input = JOptionPane.showInputDialog("Masukkan nilai matriks B[" + i + "][" + j + "]:");
20         matrix2[i][j] = Integer.parseInt(input);
21     }
22 }
23
24 String result = "Matriks A:\n";
25 result += matrixToString(matrix1);
26 result += "\n\nMatriks B:\n";
27 result += matrixToString(matrix2);
28
29 JOptionPane.showMessageDialog(null, result);
30
31
32 public static String matrixToString(int[][] matrix) {
33     StringBuilder sb = new StringBuilder();
34     for (int i = 0; i < matrix.length; i++) {
35         for (int j = 0; j < matrix[i].length; j++) {
36             sb.append(matrix[i][j]);
37         }
38     }
39     return sb.toString();
40 }
41
42 public static void main(String[] args) {
43     // ...
44 }
45
46
```

Input

Masukkan nilai matriks A [0][0]:

1

OK Cancel

Input

Masukkan nilai matriks A [0][1]:

3

OK Cancel

Input

Masukkan nilai matriks A [1][0]:

9

OK Cancel

Input

Masukkan nilai matriks A [1][1]:

5

OK Cancel

Input

Masukkan nilai matriks B[0][0]:

4

OK Cancel

Input

Masukkan nilai matriks B[0][1]:

5

OK Cancel

Input

Masukkan nilai matriks B[1][0]:

3

OK Cancel

Input

Masukkan nilai matriks B[1][1]:

6

OK Cancel

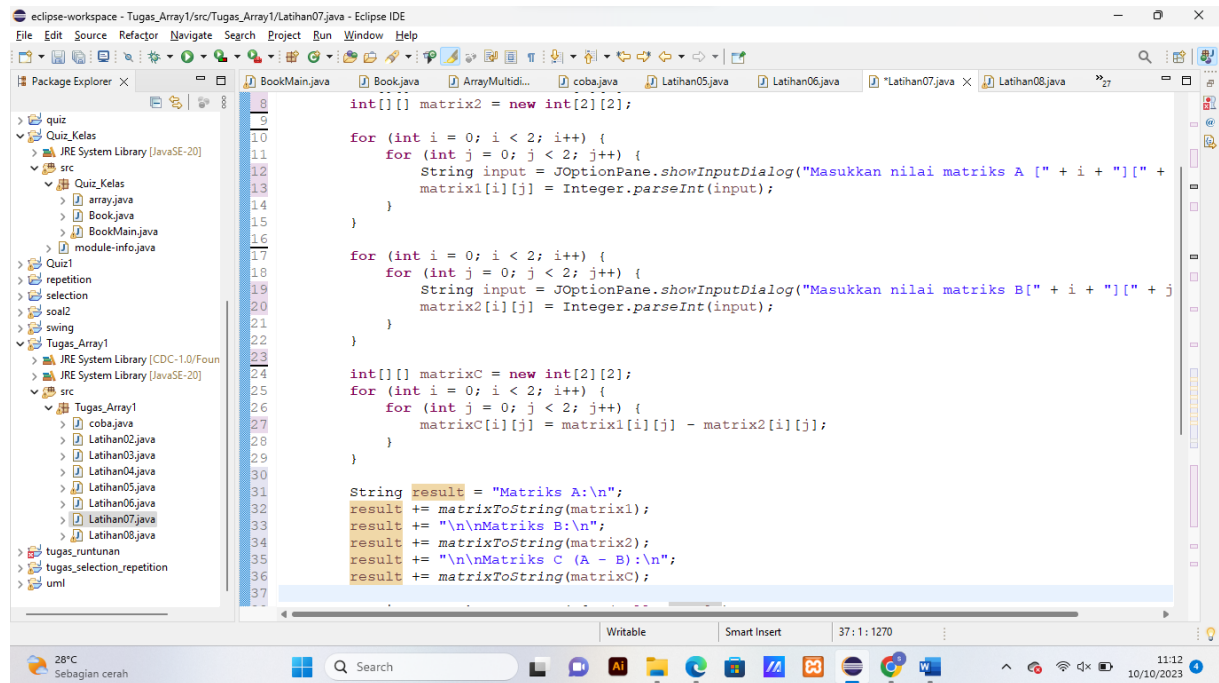
Message

Matriks A:  
13  
95

Matriks B:  
45  
36

OK

## Latihan07



The screenshot shows the Eclipse IDE with a Java project named 'Tugas\_Array1'. The package explorer on the left shows the project structure, including a 'src' folder with files like 'BookMain.java', 'Book.java', 'ArrayMulti...', 'cobajava', 'Latihan05.java', 'Latihan06.java', 'Latihan07.java', and 'Latihan08.java'. The main editor displays the code for 'Latihan07.java'. The code defines two 2x2 matrices, 'matrix1' and 'matrix2', and calculates their difference, 'matrixC'. It uses nested loops to iterate over the elements of the matrices and prompts the user to input values for each element. The result is displayed as a string with the matrices and their difference.

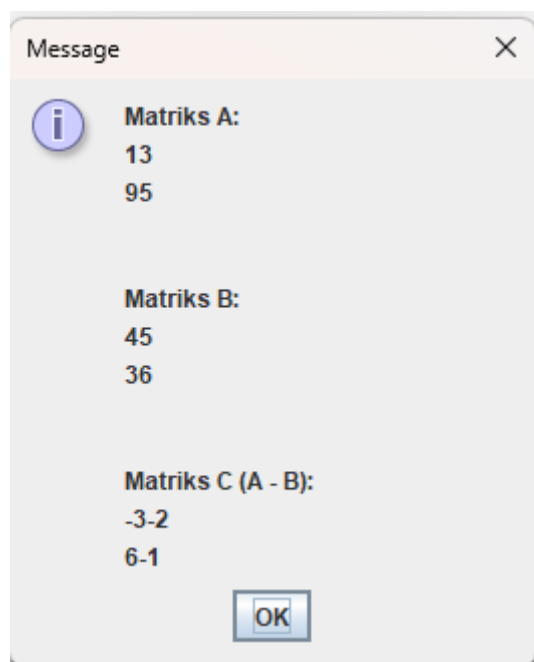
```
int[][] matrix2 = new int[2][2];

for (int i = 0; i < 2; i++) {
    for (int j = 0; j < 2; j++) {
        String input = JOptionPane.showInputDialog("Masukkan nilai matriks A [" + i + "]" + j + "]");
        matrix1[i][j] = Integer.parseInt(input);
    }
}

for (int i = 0; i < 2; i++) {
    for (int j = 0; j < 2; j++) {
        String input = JOptionPane.showInputDialog("Masukkan nilai matriks B[" + i + "]" + j + "]");
        matrix2[i][j] = Integer.parseInt(input);
    }
}

int[][] matrixC = new int[2][2];
for (int i = 0; i < 2; i++) {
    for (int j = 0; j < 2; j++) {
        matrixC[i][j] = matrix1[i][j] - matrix2[i][j];
    }
}

String result = "Matriks A:\n";
result += matrixToString(matrix1);
result += "\n\nMatriks B:\n";
result += matrixToString(matrix2);
result += "\n\nMatriks C (A - B):\n";
result += matrixToString(matrixC);
```



## Latihan08



Input

Masukan No Telp:

+62 819-3208-087

OK Cancel

Input

Masukan Nama Lengkap:

Edi Nurachmand

OK Cancel

Input

Masukan Alamat:

Taman Cimanggu Permai,Bogor

OK Cancel

Input

Masukan No Telp:

+62 856-9380-0384

OK Cancel

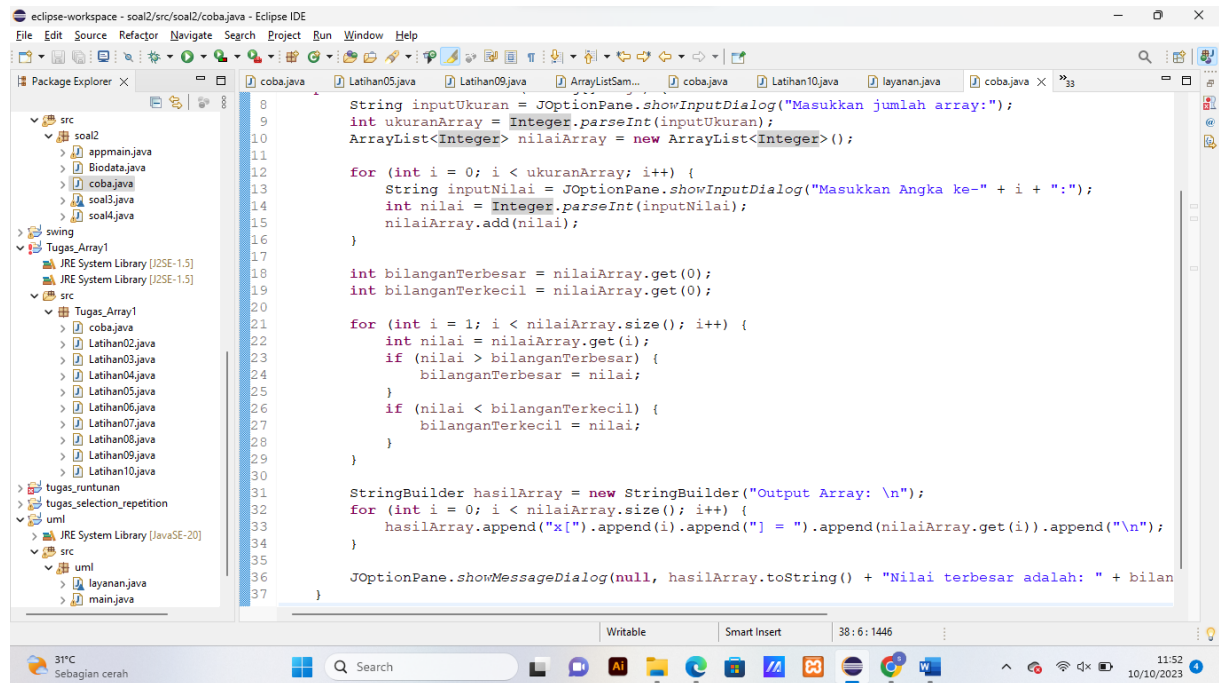
Message

Data yang diisi:

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:+62 819-3208-087  
Nama Lengkap:Edi Nurachmand  
Alamat:Taman Cimanggu Permai,Bogor  
No Telp:+62 856-9380-0384

OK

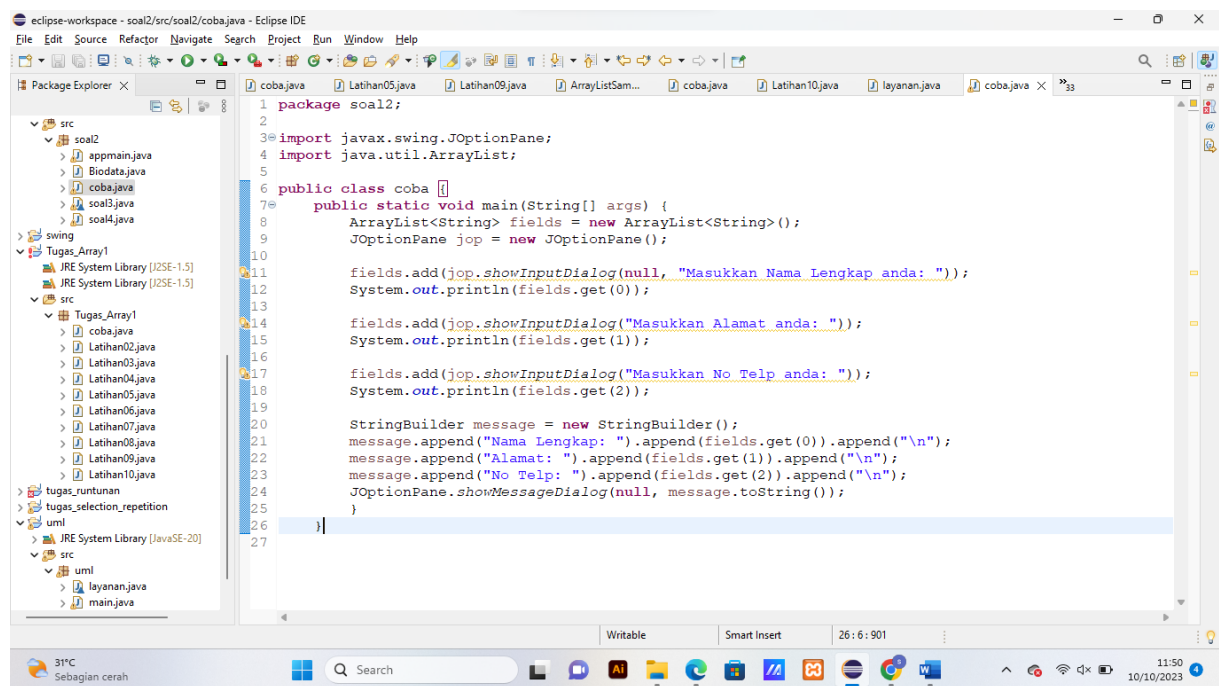
## Latihan09



The screenshot shows the Eclipse IDE with a project named 'soal2' and a package 'src'. The 'cobajava' file is open, showing the following code:

```
8
9
10 String inputUkuran = JOptionPane.showInputDialog("Masukkan jumlah array:");
11 int ukuranArray = Integer.parseInt(inputUkuran);
12 ArrayList<Integer> nilaiArray = new ArrayList<Integer>();
13
14 for (int i = 0; i < ukuranArray; i++) {
15     String inputNilai = JOptionPane.showInputDialog("Masukkan Angka ke-" + i + ":");
16     int nilai = Integer.parseInt(inputNilai);
17     nilaiArray.add(nilai);
18 }
19
20 int bilanganTerbesar = nilaiArray.get(0);
21 int bilanganTerkecil = nilaiArray.get(0);
22
23 for (int i = 1; i < nilaiArray.size(); i++) {
24     int nilai = nilaiArray.get(i);
25     if (nilai > bilanganTerbesar) {
26         bilanganTerbesar = nilai;
27     }
28     if (nilai < bilanganTerkecil) {
29         bilanganTerkecil = nilai;
30     }
31 }
32
33 StringBuilder hasilArray = new StringBuilder("Output Array: \n");
34 for (int i = 0; i < nilaiArray.size(); i++) {
35     hasilArray.append("x[").append(i).append("] = ").append(nilaiArray.get(i)).append("\n");
36 }
37
38 JOptionPane.showMessageDialog(null, hasilArray.toString() + "Nilai terbesar adalah: " + bilan
```

## Latihan10



The screenshot shows the Eclipse IDE with a project named 'soal2' and a package 'src'. The 'cobajava' file is open, showing the following code:

```
1 package soal2;
2
3 import javax.swing.JOptionPane;
4 import java.util.ArrayList;
5
6 public class coba {
7     public static void main(String[] args) {
8         ArrayList<String> fields = new ArrayList<String>();
9         JOptionPane jop = new JOptionPane();
10
11         fields.add(jop.showInputDialog(null, "Masukkan Nama Lengkap anda: "));
12         System.out.println(fields.get(0));
13
14         fields.add(jop.showInputDialog("Masukkan Alamat anda: "));
15         System.out.println(fields.get(1));
16
17         fields.add(jop.showInputDialog("Masukkan No Telp anda: "));
18         System.out.println(fields.get(2));
19
20         StringBuilder message = new StringBuilder();
21         message.append("Nama Lengkap: ").append(fields.get(0)).append("\n");
22         message.append("Alamat: ").append(fields.get(1)).append("\n");
23         message.append("No Telp: ").append(fields.get(2)).append("\n");
24         JOptionPane.showMessageDialog(null, message.toString());
25     }
26 }
27
```