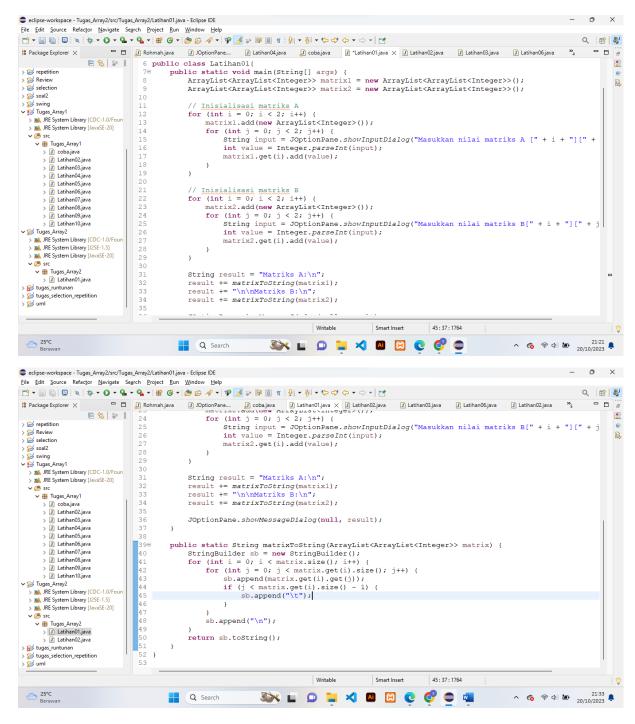
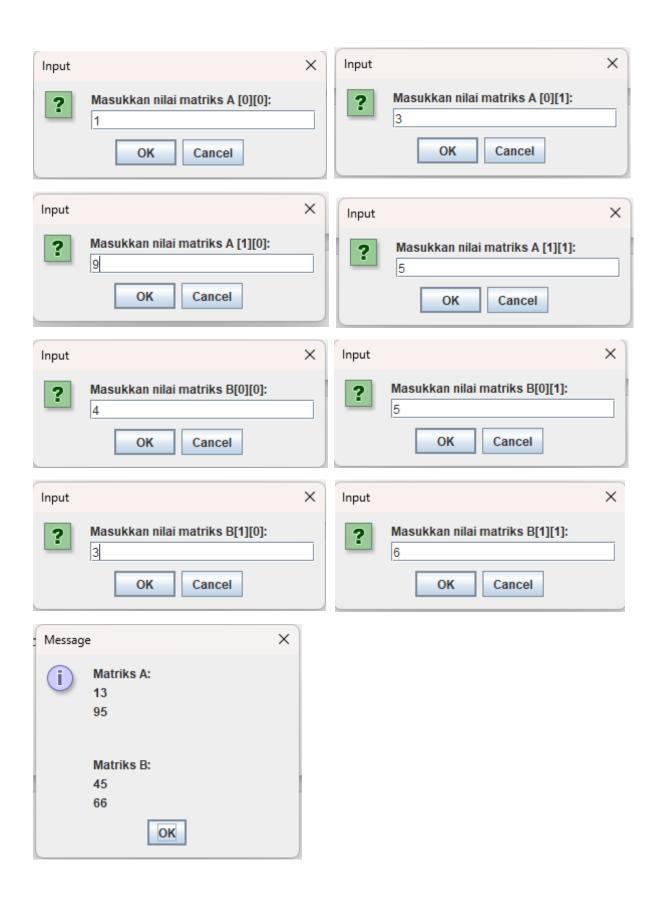
Nama: Siti Rohmah

NPM: 222310054

Kelas: TI-22-PB

Tugas: Array2





```
eclipse-workspace - Tugas_Array2/src/Tugas_Array2/Latihan02.java - Eclipse IDE
                                                                                                                                                                                                                                                                                              - 0 X
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                                             _ =
                                                               6 public class Latihan02{
                                                                           public static void main(String[] args) {
    ArrayList<ArrayList<Integer>> matrixA = new ArrayList<ArrayList<Integer>>();
    ArrayList<ArrayList<Integer>> matrixB = new ArrayList<ArrayList<Integer>>();
 > 📂 repetition
                                                                                                                                                                                                                                                                                                                    •
  > 📂 selection
 > $\sigma\\ \sigma\\ \sigma\\\ \sigma\\\\ \sigma\\\ \sigma\\\ \sigma\\\ \sigma\\\ \sigma\\\ \sigma\\\ \sigma\\\ \sigma\\\ \sigma\\\ \
                                                                                      // Inisialisasi matriks A
for (int i = 0; i < 2; i++) {
   matrixA.add(new ArrayList<Integer>());
   for (int j = 0; j < 2; j++) {
        String input = JOptionPane.showInputDialog("Masukkan nilai matriks A [" + i + "][" +
        int value = Integer.parseInt(input);
        matrixA.get(i).add(value);
}</pre>
    > M JRE System Library [JavaSE-20]

✓ 

☐ Tugas Array1

           }
              Latihan05.java
Latihan06.java
                                                                                      // Inisialisasi matriks B
for (int i = 0; i < 2; i++) {</pre>
 > ② Lethan0fo,ava
> ② Lethan0fo,ava
> ② Lethan08,ava
> ② Lethan08,ava
> ② Lethan08,ava
> ② Lethan10,ava

▼ ∑ Tugas_Array2
> ﷺ JRE System Library (CDC-1.0/Four
                                                                                               matrixB.add(new ArrayList<Integer>());
for (int j = 0; j < 2; j++) {
   String input = JOptionPane.showInputDialog("Masukkan nilai matriks B[" + i + "][" + j
   int value = Integer.parseInt(input);</pre>
                                                                                                         matrixB.get(i).add(value);
    > M JRE System Library [J2SE-1.5]
      → JRE System Library [JavaSE-20]
    ✓ ∰ src
✓ ∰ Tugas_Array2
                                                                                       // Perhitungan matriks C
           > ① Latihan01.java
> ② Latihan02.java
                                                                                      ArrayList<ArrayList<Integer>> matrixC = multiplyMatrices(matrixA, matrixB);
  > 🔐 tugas_runtunan
                                                                                      String result = "Matriks A:\n";
result += matrixToString(matrixA);
  > 🔀 tugas_selection_repetition
  > 🔀 uml
                                                                                                                                                        Writable
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eclipse-workspace - Tugas_Array2/src/Tugas_Array2/Latihan02.java - Eclipse IDE
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 □ Package Explorer ×
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                                                                                                                                                                                                                                                                                                                    R
                                                                                      result += matrixToString(matrixB);
result += "\n\nMatriks C (Hasil perkalian A dan B):\n";
result += matrixToString(matrixC);
 > 📂 repetition
  Review
                                                                                                                                                                                                                                                                                                                    > 🙀 selection
 > 📂 swing
✔ 📂 Tugas_Array1
                                                                                      JOptionPane.showMessageDialog(null, result);
     > M JRE System Library [CDC-1.0/Four
     > M JRE System Library [JavaSE-20]
                                                                            public static ArrayList<ArrayList<Integer>> multiplyMatrices(ArrayList<ArrayList<Integer>> matrix
                                                             44⊕
                                                                                      int rowsA = matrixA.size();
int colsA = matrixA.get(0).size();
int colsB = matrixB.get(0).size();

✓ 

Tugas_Array1

              Coba.java
Latihan02.java
Latihan03.java
Latihan04.java
                                                             49
                                                                                     ArrayList<ArrayList<Integer>> matrixC = new ArrayList<ArrayList<Integer>>();
              Latihan05.java
                                                                                     for (int i = 0; i < rowsA; i++) {
   matrixC.add(new ArrayList<Integer>());
   for (int j = 0; j < colsB; j++) {
      int sum = 0;
      for (int k = 0; k < colsA; k++) {
            sum += matrixA.get(i).get(k) * matrixB.get(k).get(j);</pre>
                                                             51
52
              Latihan07.java
             Latihan08.java
Latihan09.java
Latihan10.java
                                                            53
54
55
 ✓ 🎏 Tugas_Array2
     > A JRE System Library [CDC-1.0/Fou
    > M JRE System Library [J2SE-1.5]
                                                                                                          matrixC.get(i).add(sum);

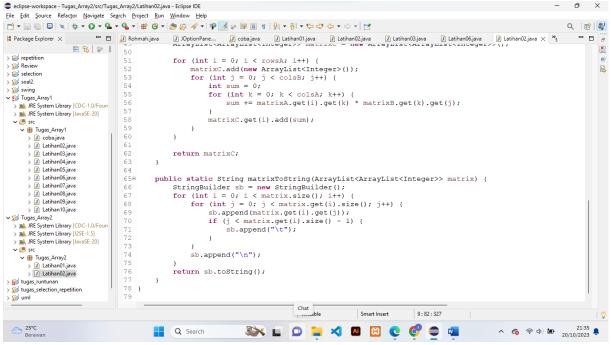
    ■ JRE System Library [JavaSE-20]
   > M. JRL Sylvia

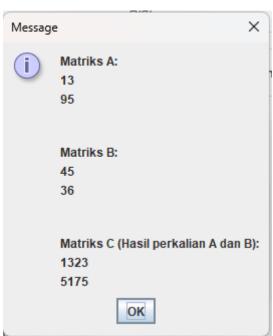
V # src

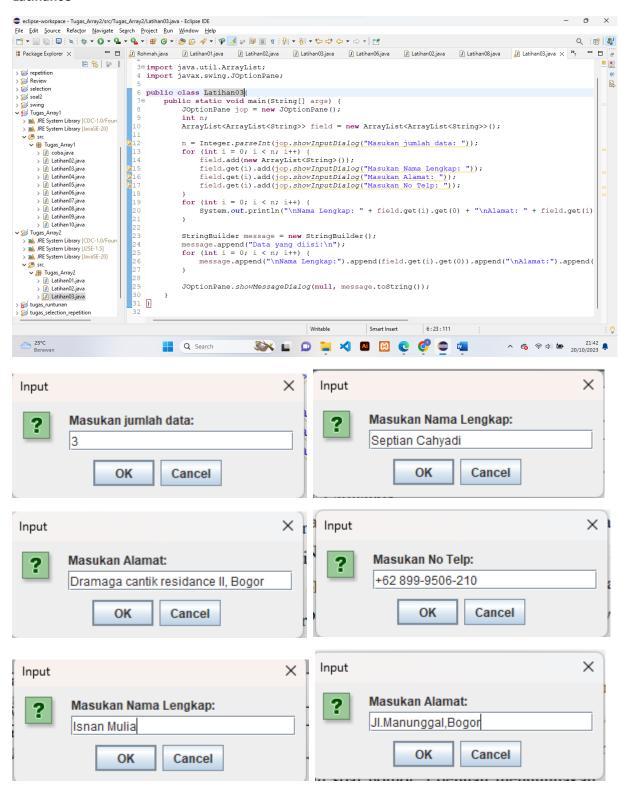
V # Tugas_Array2

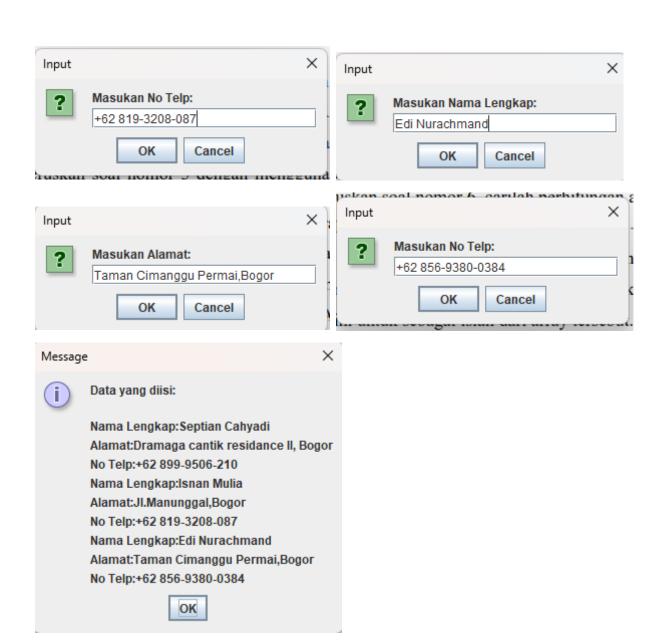
> ① Latihan01.java

> ② Latihan02.java
                                                             60
                                                                                     }
                                                             61
                                                                                       return matrixC;
  😸 tugas_runtunan
   tugas_selection_repetition
                                                             65⊜
                                                                             public static String matrixToString(ArrayList<ArrayList<Integer>> matrix) {
   uml
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eclipse-workspace - Tugas_Array2/src/Tugas_Array2/Latihan04.java - Eclipse IDE
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                                                                                                                                                                                                                                                                                                                                                                                                                              - -
 > 👺 array
                                                                                        30 import java.util.ArrayList;
4 import java.util.Collections;
   array2
                                                                                                                                                                                                                                                                                                                                                                                                                                             •
  > is array2
> is dog
> is kelompok4
> is latihan02
> is latihan09
> is latihan3
                                                                                        import java.util.Comparator;
import javax.swing.JOptionPane;
                                                                                         8 public class Latihan04 {
                                                                                                         public static void main(String[] args) {
    JOptionPane jop = new JOptionPane();
    📂 latihan4
     latihan7
   | atthan / | quiz | Quiz_Kelas | Quiz_Lelas 
                                                                                                                         ArrayList<ArrayList<String>> field = new ArrayList<ArrayList<String>>();
                                                                                                                               = Integer.parseInt(jop.showInputDialog("Masukkan jumlah data: "));
                                                                                                                         for (int i = 0; i < n; i++) {
    field.add(new ArrayList<String>());
    selection
   soal2
                                                                                                                                     field.det(i).add(jop.showInputDialog("Masukkan Nama Lengkap: "));
field.get(i).add(jop.showInputDialog("Masukkan Alamat: "));
field.get(i).add(jop.showInputDialog("Masukkan No Telp: "));
     swing
     > M JRE System Library [JavaSE-20]

> M Tugas_Array2
                                                                                                                       // Menggunakan komparator untuk mengurutkan data berdasarkan nama
Collections.sort(field, new Comparator<ArrayList<String>>() {
                                                                                                                                    public int compare(ArrayList<String> a, ArrayList<String> b) {
   return a.get(0).compareTo(b.get(0));
                                                                                 △24⊝
               });
  > 🔂 tugas_runtunan
                                                                                                                         System.out.println("Data setelah diurutkan berdasarkan Nama Lengkap:");
  > 📂 tugas_selection_repetition
  > 🔀 uml
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eclipse-workspace - Tugas_Array2/src/Tugas_Array2/Latihan04.java - Eclipse IDE
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                                                                                                                                                                                                                                                                                                                                                                                                                                        E 🕏 📴 🖁
  > 🖼 array
                                                                                                                                                                                                                                                                                                                                                                                                                                             field.get(i).add(jop.showInputDialog("Masukkan Nama Lengkap: "));
field.get(i).add(jop.showInputDialog("Masukkan Alamat: "));
field.get(i).add(jop.showInputDialog("Masukkan No Telp: "));
  > is dog
> is kelompok4
> is latihan02
> is latihan09
    📂 latihan3
                                                                                                                        // Menggunakan komparator untuk mengurutkan data berdasarkan nama
Collections.sort(field, new Comparator<ArrayList<String> () {
   public int compare(ArrayList<String> a, ArrayList<String> b) {
      return a.get(0).compareTo(b.get(0));
    🔀 latihan4
     latihan7
   latihan7
quiz
quiz
Quiz_Kelas
Quiz1
Review
     selection
                                                                                                                       System.out.println("Data setelah diurutkan berdasarkan Nama Lengkap:");
     soal2
                                                                                                                        for (int i = 0; i < n; i++) {
    System.out.println("\nNama Lengkap: " + field.get(i).get(0) + "\nAlamat: " + field.get(i)</pre>
    }
                                                                                                                       StringBuilder message = new StringBuilder();
message.append("Data yang diisi (diurutkan berdasarkan Nama Lengkap):\n");
for (int i = 0; i < n; i++) {
    message.append("\nNama Lengkap:").append(field.get(i).get(0)).append("\nAlamat:").append(</pre>
       > M JRE System Library [JavaSE-20]
           ✓ Æ Tugas Array2
               Latihan01.java
Latihan02.java
Latihan03.java
Latihan04.java
                                                                                                                        JOptionPane.showMessageDialog(null, message.toString());
  > 🔂 tugas_runtunan
                                                                                    43 }
44
   b 📂 tugas_selection_repetition
    uml
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                                                                                                                                                                                                                                                                                                       27 : 12 : 1075
                                                                                                                                                                             Q Search
```

# Message



Data yang diisi (diurutkan berdasarkan Nama Lengkap):

×

Nama Lengkap:Edi Nurachmad Alamat:Taman Cimanggu Permai, Bogor No Telp:+62 856-9308-0384 Nama Lengkap:Isnan Mulia

Alamat:Jl.Manunggal, Bogor

No Telp:+62 819-3208-0875 Nama Lengkap:Septian Cahyadi

Alamat:Dramaga cantik residence II, Bogor

No Telp:+62 899-9506-210

