

## LEMBAR JAWABAN TUGAS

Nama : Melani 212310049 / TI-21-PA1

Mata Kuliah : Lab PBO Praktikum 4 Array

Dosen : Febri Damatraseta Fairuz, S.T, M.Kom / 3320190306

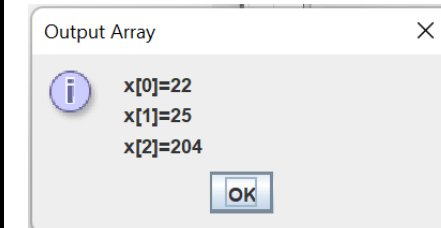
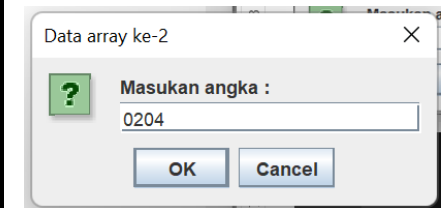
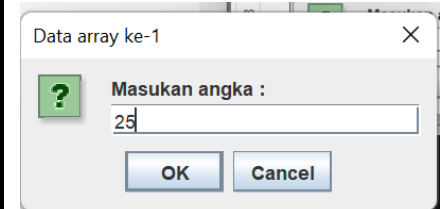
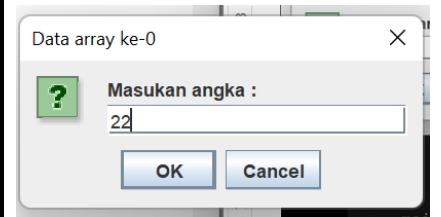
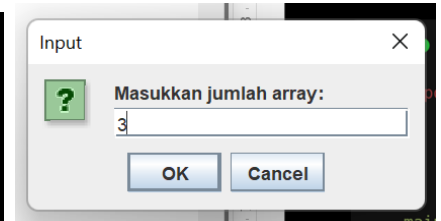
Latihan02

```
1 public class Latihan02 {
2     public static void
3     main(String[] args) {
4
5         int[] num = new
6         int[6];
7
8         num[0] = 22;
9         num[1] = 02;
10        num[2] = 03;
11        num[3] = 25;
12        num[4] = 04;
13        num[5] = 02;
14
15        for (int z = 0;
16            z < num.length; z++) {
17            System.out.println("ages[" + z + "]
18            = " + num[z]);
19        }
20    }
21 }
```

```
ages[0] = 22
ages[1] = 2
ages[2] = 3
ages[3] = 25
ages[4] = 4
ages[5] = 2
```

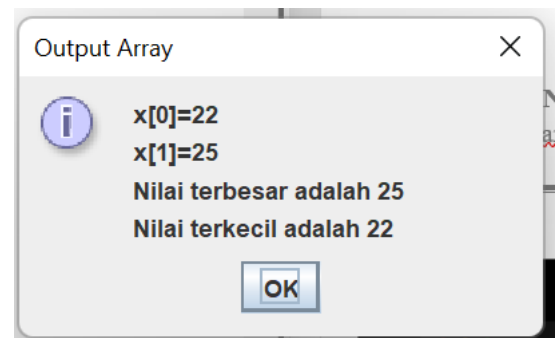
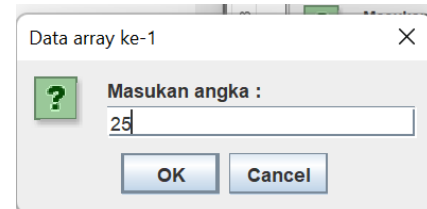
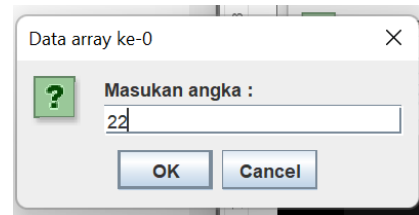
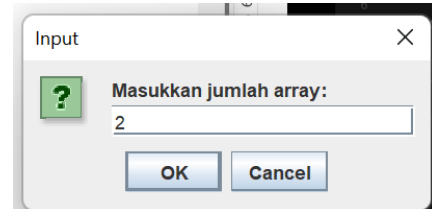
### Latihan03

```
1 import javax.swing.JOptionPane;
2
3 public class Latihan03 {
4
5     public static void
6     main(String[] args) {
7
8         String out = "";
9         int jml =
10         Integer.parseInt(JOptionPane.showInputDialog(null, "Masukkan jumlah array: ", "Input",
11         JOptionPane.QUESTION_MESSAGE));
12         int[] num = new int[jml];
13         for (int i = 0; i < jml;
14         i++) {
15             num[i] =
16             Integer.parseInt(JOptionPane.showInputDialog(null, "Masukan angka : ",
17             "Data array ke-" + i,
18             JOptionPane.QUESTION_MESSAGE));
19             out += "x[" + i +
20             "]" + num[i] + "\n";
21         }
22
23         JOptionPane.showMessageDialog(null,
24         out , "Output Array",
25         JOptionPane.INFORMATION_MESSAGE);
26
27     }
28 }
```



## Latihan04

```
1 import javax.swing.JOptionPane;
2
3 public class Latihan04 {
4
5     public static void
6     main(String[] args) {
7
8         String out = "";
9         int jml =
10         Integer.parseInt(JOptionPane.showInputDialog(null, "Masukkan jumlah
11         array: ", "Input",
12         JOptionPane.QUESTION_MESSAGE));
13         int[] num = new int[jml];
14         int max = 0;
15
16         for (int i = 0; i < jml;
17         i++) {
18             num[i] =
19             Integer.parseInt(JOptionPane.showInputDialog(null, "Masukan angka :
20             ", "Data array ke-" + i,
21             JOptionPane.QUESTION_MESSAGE));
22             out += "x[" + i + "]= "
23             + num[i] + "\n";
24             if (max < num[i]) {
25                 max = num[i];
26             }
27
28             int min = max;
29             for(int j = 0; j < jml;
30             j++){
31                 if(num[j] < min){
32                     min = num[j];
33                 }
34             }
35
36             out += "Nilai terbesar
37             adalah " + max + "\n";
38             out += "Nilai terkecil
39             adalah " + min;
40
41             JOptionPane.showMessageDialog(null,
42             out , "Output Array",
43             JOptionPane.INFORMATION_MESSAGE);
44
45         }
46     }
47 }
```



Latihan05

```
1 import javax.swing.JOptionPane;
2
3 public class Latihan05 {
4
5     public static void
6     main(String[] args) {
7
8         String out = "";
9         String field[] = {"Nama
10        Lengkap: ", "Alamat: ", "No Telp:
11        "};
12        String isi[] = {"", "", ""};
13
14        for (int i = 0; i <
15        field.length; i++) {
16            String in =
17            JOptionPane.showInputDialog(null,
18            field[i], "Data array ke-" + i,
19            JOptionPane.QUESTION_MESSAGE);
20            isi[i] = in + "\n";
21            out += field[i] +
22            isi[i];
23        }
24
25        JOptionPane.showMessageDialog(null,
26        out , "Output Array",
27        JOptionPane.INFORMATION_MESSAGE);
28
29    }
30 }
```

Data array ke-0

?

Nama Lengkap:

Melani Alexandria

OK Cancel

Data array ke-1

?

Alamat:

Bikini Bottom

OK Cancel

Data array ke-2

?

No Telp:

0895375675969

OK Cancel

Output Array

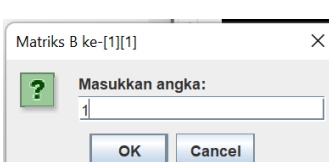
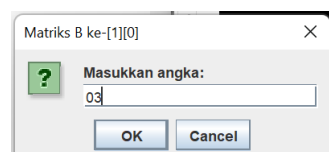
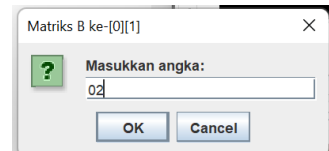
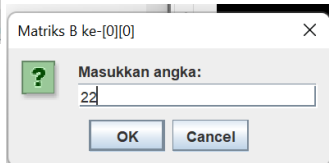
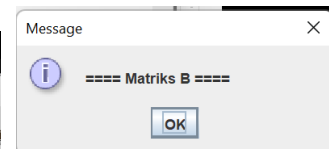
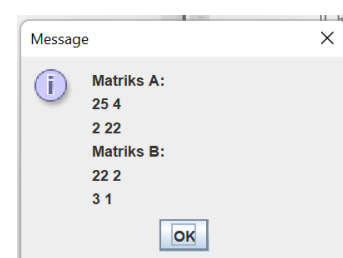
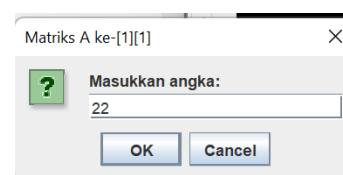
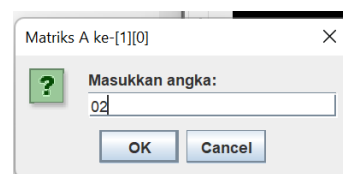
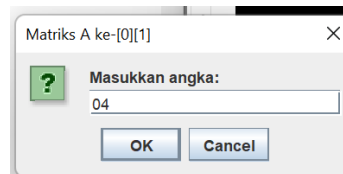
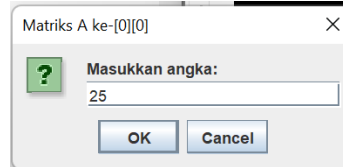
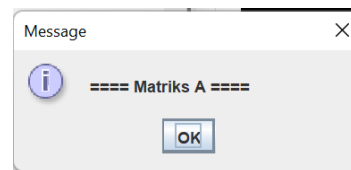
i

Nama Lengkap: Melani Alexandria  
Alamat: Bikini Bottom  
No Telp: 0895375675969

OK

## Latihan 06

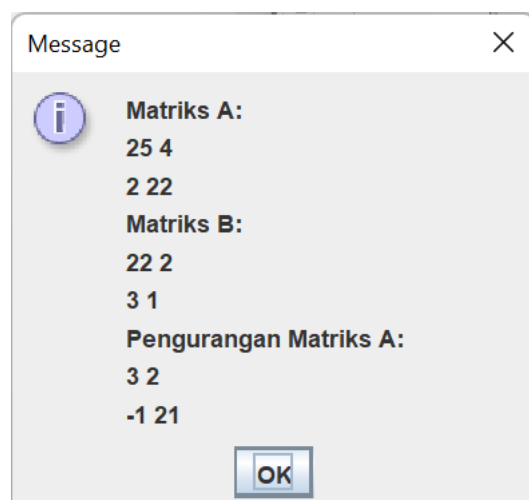
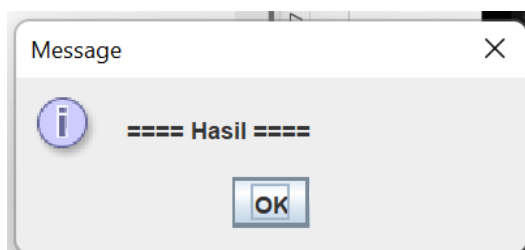
```
1 import javax.swing.JOptionPane;
2
3 public class Latihan06 {
4     public static void
5     main(String[] args) {
6         int baris =2;
7         int kolom =2;
8
9         int matriksA[][]= new
10        int[baris][kolom];
11        int matriksB[][]= new
12        int[baris][kolom];
13
14        JOptionPane.showMessageDialog(null,
15        "==== Matriks A ====");
16        for(int i =0;
17        i<matriksA.length; i++) {
18            for(int j=0;
19            j<matriksA.length; j++) {
20                matriksA[i][j] =
21                Integer.parseInt(JOptionPane.showIn
22                putDialog(null,"Masukkan angka:
23                ","Matriks A ke-["+i+"]"+"
24                ["+j+"]",JOptionPane.QUESTION_MESSA
25                GE));
26            }
27        }
28
29        JOptionPane.showMessageDialog(null,
30        "==== Matriks B ====");
31        for(int i =0;
32        i<matriksB.length; i++) {
33            for(int j=0;
34            j<matriksB.length; j++) {
35                matriksB[i][j] =
36                Integer.parseInt(JOptionPane.showIn
37                putDialog(null,"Masukkan angka: ",
38                "Matriks B ke-["+i+"]"+"["+j+"]",
39                JOptionPane.QUESTION_MESSAGE));
40            }
41        }
42
43        //OUTPUT
44        String outputA="Matriks A:
45        \n";
46        for(int i=0;
47        i<matriksA.length;i++) {
48            for(int
49            j=0;j<matriksA.length; j++) {
50                outputA +=
51                matriksA[i][j] + " ";
52            }
53            outputA += "\n";
54        }
55
56        String outputB="Matriks B:
57        \n";
58        for(int i=0;
59        i<matriksB.length;i++) {
60            for(int
61            j=0;j<matriksB.length; j++) {
62                outputB +=
63                matriksB[i][j] + " ";
64            }
65            outputB += "\n";
66        }
67
68        JOptionPane.showMessageDialog(null,
69        outputA+outputB);
70    }
71 }
```



## Latihan 07

```
1 import javax.swing.JOptionPane;
2
3 public class Latihan07 {
4     public static void
5     main(String[] args) {
6         int baris =2;
7         int kolom =2;
8
9         int matriksA[][]= new
10         int[baris][kolom];
11         int matriksB[][]= new
12         int[baris][kolom];
13         int hasil1[][] = new
14         int[baris][kolom];
15
16         JOptionPane.showMessageDialog(null,
17         "==== Matriks A ====");
18         for(int i =0;
19         i<matriksA.length; i++) {
20             for(int j=0;
21             j<matriksA.length; j++) {
22                 matriksA[i][j] =
23                 Integer.parseInt(JOptionPane.showIn
24                 putDialog(null,"Masukkan angka: ",
25                 "Matriks A ke-["+i+"]"+"["+j+"]",
26                 JOptionPane.QUESTION_MESSA
27                 GE));
28             }
29         }
30
31         JOptionPane.showMessageDialog(null,
32         "==== Matriks B ====");
33         for(int i =0;
34         i<matriksB.length; i++) {
35             for(int j=0;
36             j<matriksB.length; j++) {
37                 matriksB[i][j] =
38                 Integer.parseInt(JOptionPane.showIn
39                 putDialog(null,"Masukkan angka: ",
40                 "Matriks B ke-["+i+"]"+"["+j+"]",
41                 JOptionPane.QUESTION_MESSA
42                 GE));
43             }
44         }
45
46         //OUTPUT
47         String outputA="Matriks A:
48         \n";
49         for(int i=0;
50         i<matriksA.length;i++) {
51             for(int
52             j=0;j<matriksA.length; j++) {
53                 outputA +=
54                 matriksA[i][j] + " ";
55             }
56             outputA += "\n";
57         }
58
59         String outputB="Matriks B:
60         \n";
61         for(int i=0;
62         i<matriksB.length;i++) {
63             for(int
64             j=0;j<matriksB.length; j++) {
65                 outputB +=
66                 matriksB[i][j] + " ";
67             }
68             outputB += "\n";
69         }
70
71         String output1="Pengurangan
72         Matriks A: \n";
73         for(int i=0;
74         i<hasil1.length;i++) {
75             for(int
76             j=0;j<hasil1.length; j++) {
77                 output1 +=
78                 hasil1[i][j] + " ";
79             }
80             output1 += "\n";
81         }
82
83         JOptionPane.showMessageDialog(null,
84         outputA+outputB+output1);
85     }
86 }
```

Angka matriks sama seperti output dilatihan06



## Latihan08

```
1 import javax.swing.JOptionPane;
2
3 public class Latihan08 {
4
5     public static void
6     main(String[] args) {
7         int baris = 3, kolom =
8         4;
9         int hasil = 0, m = 1, e
10        = 2;
11        String output = "";
12        String input[][] = new
13        String[baris][kolom];
14        input[0][0] = "Nama
15        Lengkap: ";
16        input[1][0] = "Alamat:
17        ";
18        input[2][0] = "No Telp:
19        ";
20
21        //INPUT & OUTPUT
22        for(int i = 0; i <
23        baris; i++) {
24            output += input[i]
25            [0];
26            for(int j = m; j <
27            e; j++) {
28                input[i][j] =
29                JOptionPane.showInputDialog(null,
30                input[i][0], "Data Array ke-" + i
31                + "]" + "[" + j + "]",
32                JOptionPane.QUESTION_MESSAGE);
33
34                output +=
35                input[i][j] + "\n";
36            }
37            //restart loop
38            if (i == baris - 1)
39            {
40                output += "\n";
41                i = -1;
42                m = m+1;
43                e = e+1;
44                hasil =
45                hasil+1;
46                if (hasil == 3)
47                {
48                    i = baris;
49                }
50            }
51        }
52
53        JOptionPane.showMessageDialog(null,
54        output);
55    }
56 }
```

Data Array ke-[1][1]

Alamat:  
Bikini Bottom

OK Cancel

Data Array ke-[0][1]

Nama Lengkap:  
Melani Alexandria

OK Cancel

Data Array ke-[0][2]

Nama Lengkap:  
Shelby

OK Cancel

Data Array ke-[2][1]

No Telp:  
0895375675969

OK Cancel

Data Array ke-[2][2]

No Telp:  
085280295301

OK Cancel

Data Array ke-[1][2]

Alamat:  
Krusty Crab

OK Cancel

Data Array ke-[1][3]

Alamat:  
rumah tuhan

OK Cancel

Data Array ke-[0][3]

Nama Lengkap:  
hihihi

OK Cancel

Data Array ke-[2][3]

No Telp:  
085280295301

OK Cancel

Message

**Nama Lengkap: melani alexandria**  
**Alamat: bikini bottom**  
**No Telp: 0895375675969**

**Nama Lengkap: shelby**  
**Alamat: krusty crab**  
**No Telp: 085280295301**

**Nama Lengkap: hihihi**  
**Alamat: rumah tuhan**  
**No Telp: 085280295301**

OK



## Latihan 09

```
1 import java.util.ArrayList;
2 import javax.swing.JOptionPane;
3
4 public class Latihan09 {
5
6     public static void main(String[]
7         args) {
8         String out = "";
9         int jml =
10             Integer.parseInt(JOptionPane.showIn
11                 putDialog(null, "Masukkan jumlah
12                 array: ", "Input",
13                 JOptionPane.QUESTION_MESSAGE));
14         ArrayList<Integer> num =
15             new ArrayList<Integer>();
16         int max = 0;
17         for (int i = 0; i < jml;
18             i++) {
19             int isi =
20                 Integer.parseInt(JOptionPane.showI
21                     nputDialog(null, "Masukkan angka :
22                     ", "Data array ke-" + i,
23                     JOptionPane.QUESTION_MESSAGE));
24             num.add(i, isi);
25             out += "x[" + i + "]="
26                 + isi + "\n";
27             if (max < isi) {
28                 max = isi;
29             }
30         }
31         int min = max;
32         for(int j = 0; j < jml;
33             j++){
34             if(num.get(j) < min){
35                 min = num.get(j);
36             }
37         }
38         out += "Nilai terbesar
39             adalah " + max + "\n";
40         out += "Nilai terkecil
41             adalah " + min;
42         JOptionPane.showMessageDialog(null,
43             out , "Output Array",
44             JOptionPane.INFORMATION_MESSAGE);
45     }
46 }
```

Input

Masukkan jumlah array:

2

OK Cancel

Data array ke-0

Masukkan angka :

25

OK Cancel

Data array ke-1

Masukkan angka :

22

OK Cancel

Output Array

x[0]=25  
x[1]=22  
Nilai terbesar adalah 25  
Nilai terkecil adalah 22

OK



## Latihan10

```
1 import java.util.ArrayList;
2 import javax.swing.JOptionPane;
3
4 public class Latihan10 {
5
6     public static void main(String[]
7         args) {
8
9         String out = "";
10        ArrayList<String> field =
11        new ArrayList<String>( );
12        field.add("Nama Lengkap:
13        ");
14        field.add("Alamat: ");
15        field.add("No Telp: ");
16        ArrayList<String> isi = new
17        ArrayList<String>( );
18
19        for (int i = 0; i < 3; i++)
20        {
21            String in =
22            JOptionPane.showInputDialog(null,
23            field.get(i), "Data array ke-" + i,
24            JOptionPane.QUESTION_MESSAGE);
25            isi.add(in + "\n");
26            out += field.get(i) +
27            isi.get(i);
28        }
29
30        JOptionPane.showMessageDialog(null,
31        out , "Output Array",
32        JOptionPane.INFORMATION_MESSAGE);
33    }
34 }
```

Data array ke-0

?

Nama Lengkap:

Melani Alexandria

OK Cancel

Data array ke-1

?

Alamat:

bikini bottom

OK Cancel

Data array ke-2

?

No Telp:

085280295301

OK Cancel

Output Array

i

Nama Lengkap: Melani Alexandria  
Alamat: bikini bottom  
No Telp: 085280295301

OK