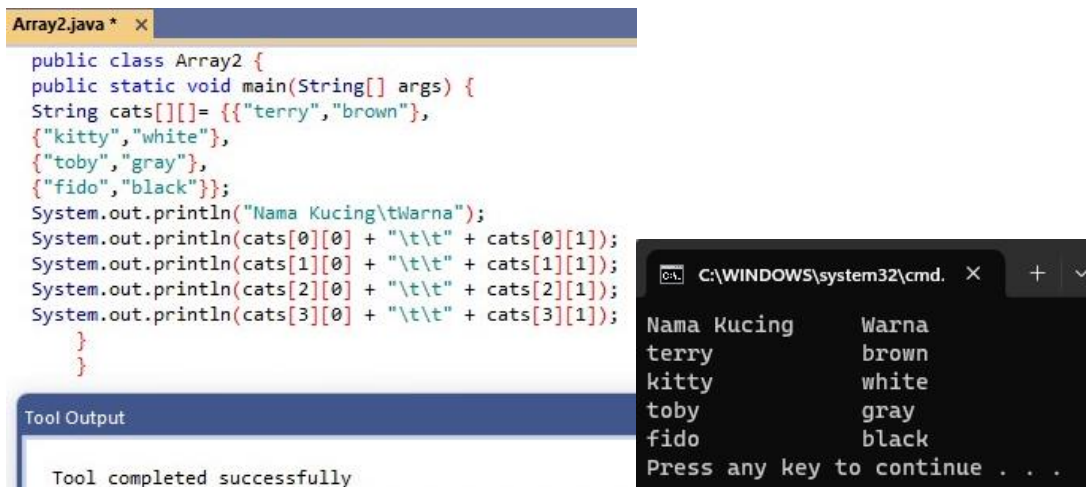


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Prodi : Sistem Informasi Akuntansi

A. PRAKTIK

1. Deklarasi dan inisialisasi array 2-dimensi. Bandingkan dengan array 1-dimensi dan jelaskan dalam program.

```
1. public class Array2 {  
2. public static void main(String[] args) {  
3. String cats[][]= {"terry","brown"},  
4. {"kitty","white"},  
5. {"toby","gray"},  
6. {"fido","black"}};  
7. System.out.println("Nama Kucing\tWarna");  
   System.out.println(cats[0][0] + "\t\t" + cats[0][1]);  
   System.out.println(cats[1][0] + "\t\t" + cats[1][1]);  
   System.out.println(cats[2][0] + "\t\t" + cats[2][1]);  
   System.out.println(cats[3][0] + "\t\t" + cats[3][1]);  
8. }  
9. }
```



The screenshot shows a Java IDE with a file named `Array2.java`. The code is as follows:

```
public class Array2 {  
    public static void main(String[] args) {  
        String cats[][]= {"terry","brown"},  
        {"kitty","white"},  
        {"toby","gray"},  
        {"fido","black"}};  
        System.out.println("Nama Kucing\tWarna");  
        System.out.println(cats[0][0] + "\t\t" + cats[0][1]);  
        System.out.println(cats[1][0] + "\t\t" + cats[1][1]);  
        System.out.println(cats[2][0] + "\t\t" + cats[2][1]);  
        System.out.println(cats[3][0] + "\t\t" + cats[3][1]);  
    }  
}
```

The output of the program is shown in a command prompt window:

```
C:\WINDOWS\system32\cmd. X + v  
Nama Kucing      Warna  
terry            brown  
kitty            white  
toby             gray  
fido             black  
Press any key to continue . . .
```

The IDE also shows a "Tool Output" window with the message: "Tool completed successfully".

2. Modifikasi program praktik 1 untuk menampilkan array menggunakan perulangan for. Amati hasilnya dan jelaskan dalam laporan

```
1. public class Array2 {  
2. public static void main(String[] args) {  
3. String cats[][]= {"terry","brown"},  
4. {"kitty","white"},  
5. {"toby","gray"},  
6. {"fido","black"}};  
7. System.out.println("Nama Kucing\tWarna");  
8. for (int i=0;i<cats.length;i++) {  
9.     for (int j=0;j<cats[i].length;j++) {  
10.        System.out.print(cats[i][j]);  
}
```

```

11. System.out.print("\t");
12. }
13. System.out.println(" ");
14. }
15. }
16. }

```

The screenshot shows an IDE with two tabs: `Array2_1.java` and `Array2.java`. The `Array2_1.java` tab is active, displaying the following code:

```

public class Array2_1 {
    public static void main(String[] args) {
        String cats[][] = {{ "terry", "brown"},
        { "kitty", "white"},
        { "toby", "gray"},
        { "fido", "black"} };
        System.out.println("Nama Kucing\tWarna");
        for (int i=0; i<cats.length; i++) {
            for (int j=0; j<cats[i].length; j++) {
                System.out.print(cats[i][j]);
                System.out.print("\t");
            }
            System.out.println(" ");
        }
    }
}

```

The `Tool Output` pane at the bottom shows the message: "Tool completed successfully". To the right, a command prompt window displays the output of the program:

```

C:\WINDOWS\system32\cmd.
Nama Kucing      Warna
terry    brown
kitty    white
toby     gray
fido     black
Press any key to continue . . .

```

3. Modifikasi program nomor 2 agar dapat menerima inputan dari user.

The screenshot shows an IDE with three tabs: `Array2_2.java`, `Array2_1.java`, and `Array2.java`. The `Array2_2.java` tab is active, displaying the following code:

```

import java.util.Scanner;
public class Array2_2 {
    public static void main(String[] args) {
        String cats[][] = new String[4][2];
        Scanner scanner = new Scanner(System.in);
        System.out.println("Masukkan nama kucing ke-1: ");
        cats[0][0] = scanner.nextLine();
        System.out.println("Masukkan warna kucing ke-1: ");
        cats[0][1] = scanner.nextLine();
        System.out.println("Masukkan nama kucing ke-2: ");
        cats[1][0] = scanner.nextLine();
        System.out.println("Masukkan warna kucing ke-2: ");
        cats[1][1] = scanner.nextLine();
        System.out.println("Masukkan nama kucing ke-3: ");
        cats[2][0] = scanner.nextLine();
        System.out.println("Masukkan warna kucing ke-3: ");
        cats[2][1] = scanner.nextLine();
        System.out.println("Nama Kucing\tWarna");
        for (int i=0; i<cats.length; i++) {
            for (int j=0; j<cats[i].length; j++) {
                System.out.print(cats[i][j]);
                System.out.print("\t");
            }
            System.out.println(" ");
        }
    }
}

```

The `Tool Output` pane at the bottom shows the message: "Tool completed successfully". To the right, a command prompt window displays the output of the program, showing user input for each cat's name and color:

```

C:\WINDOWS\system32\cmd.
Masukkan nama kucing ke-1:
terry
Masukkan warna kucing ke-1:
brown
Masukkan nama kucing ke-2:
kitty
Masukkan warna kucing ke-2:
white
Masukkan nama kucing ke-3:
toby
Masukkan warna kucing ke-3:
gray
Nama Kucing      Warna
terry    brown
kitty    white
toby     gray
null     null
Press any key to continue . . .

```

4. Cobalah program berikut dan Amati hasilnya dan jelaskan dalam laporan.

```

1. import java.util.Scanner;
2. public class Matrik {
3.     public static void main(String[] args) {
4.         Scanner input = new Scanner(System.in);
5.         int[][] x = {{1, 2, 3}, {4, 5, 6}};
6.         int[][] y = {{3, 6, 1}, {4, 7, 9}};
7.         int baris = 2;

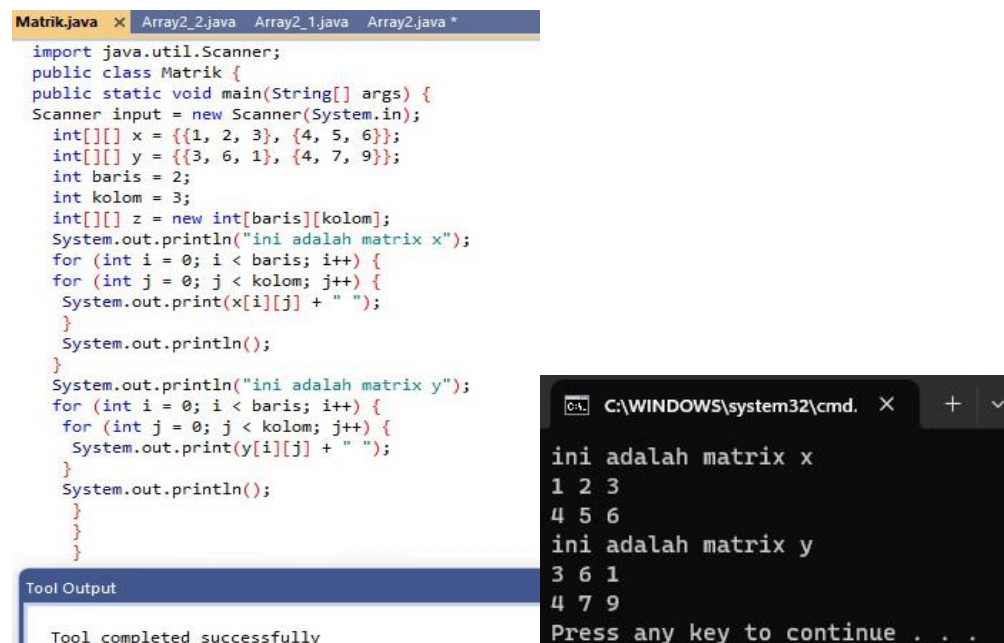
```

```

8.     int kolom = 3;
9.     int[][] z = new int[baris][kolom];
10.        System.out.println("ini adalah matrix x");
11.        for (int i = 0; i < baris; i++) {
12.            for (int j = 0; j < kolom; j++) {
13.                System.out.print(x[i][j] + " ");
14.            }
15.            System.out.println();
16.        }
17.        System.out.println("ini adalah matrix y");
18.        for (int i = 0; i < baris; i++) {
19.            for (int j = 0; j < kolom; j++) {
20.                System.out.print(y[i][j] + " ");
21.            }
22.            System.out.println();
24.        }

```

5. Modifikasi program nomor 4 untuk menampilkan hasil output pengurangan dan penjumlahan dari matrik tersebut



The screenshot shows a Java IDE with a file named 'Matrik.java' open. The code defines a 'Matrik' class with a 'main' method that initializes two 2x3 matrices, 'x' and 'y', and prints them. The output window shows the following text:

```

C:\WINDOWS\system32\cmd. X + v
ini adalah matrix x
1 2 3
4 5 6
ini adalah matrix y
3 6 1
4 7 9
Press any key to continue . . .

```

The IDE's 'Tool Output' panel at the bottom indicates 'Tool completed successfully'.

6. Cobalah program berikut untuk menampilkan Transpose dari matrik amati hasil outputnya

```

1. public class MatriksTranspose {
2.     public static void main(String[] args) {
3.         int[][] matriks = {{12,23,32},{34,56,63},{78,89,97}};
4.         int j,k;
5.         System.out.println("Matriks Sebelum Transpose ");
6.         for(j=0;j<3;j++){
7.             for(k=0;k<3;k++){
8.                 System.out.print(matriks[j][k]+" ");
9.             }
10.            System.out.println();
11.        }
12.        System.out.println("\nMatriks Setelah Transpose");
13.        for(j=0;j<3;j++){
14.            for(k=0;k<3;k++){
15.                System.out.print(matriks[k][j]+" ");
16.            }

```

```

17.             System.out.println();
18.         }
19.     }
20. }

```

```

MatriksTranspose.java * x Matrik.java Array2_2.java Array2_1.java Array2.java *
public class MatriksTranspose {
    public static void main(String[] args) {
        int[][] matriks = {{12,23,32},{34,56,63},{78,89,97}};
        int j,k;
        System.out.println("Matriks Sebelum Transpose ");
        for(j=0;j<3;j++){
            for(k=0;k<3;k++){
                System.out.print(matriks[j][k]+" ");
            }
            System.out.println();
        }
        System.out.println("\nMatriks Setelah Transpose");
        for(j=0;j<3;j++){
            for(k=0;k<3;k++){
                System.out.print(matriks[k][j]+" ");
            }
            System.out.println();
        }
    }
}
Tool Output
Tool completed successfully

```

```

C:\WINDOWS\system32\cmd. x + v
Matriks Sebelum Transpose
12 23 32
34 56 63
78 89 97

Matriks Setelah Transpose
12 34 78
23 56 89
32 63 97
Press any key to continue . . .

```

7. Buatlah program di bawah ini dan amati hasil outputnya

```

1. import java.util.Scanner;
2. public class Array2Dimensi1 {
3.     public static void main(String[] args){
4.         int b=3;int d=3; //matrik 3 baris 3 kolom
5.         System.out.println("Masukan Nilai Matrix:");
6.         int[][] matrix1=new int[b][d];
7.         for(int i=0;i<b;i++){
8.             for(int j=0;j<d;j++){
9.                 matrix1[i][j]=input();
10.            }
11.        }
12.        for(int i=0;i<b;i++){
13.            for(int j=0;j<d;j++){
14.                System.out.print(matrix1[i][j]+" ");
15.            }
16.            System.out.println();
17.        }
18.    }

```

```

19.         static int input() {
20.             Scanner a=new Scanner(System.in);
21.             int b=a.nextInt();
22.             return b;
23.         }
24.     }

```

```

Array2Dimensi1.java * x MatriksTranspose.java * Matrik.java Array2_2.java
import java.util.Scanner;
public class Array2Dimensi1 {
    public static void main(String[] args){
        int b=3;int d=3; //matrik 3 baris 3 kolom
        System.out.println("Masukan Nilai Matrix:");
        int[][] matrix1=new int[b][d];
        for(int i=0;i<b;i++){
            for(int j=0;j<d;j++){
                matrix1[i][j]=input();
            }
        }
        for(int i=0;i<b;i++){
            for(int j=0;j<d;j++){
                System.out.print(matrix1[i][j]+" ");
            }
        }
        System.out.println();
    }

    static int input(){
        Scanner a=new Scanner(System.in);
        int b=a.nextInt();
        return b;
    }
}

Tool Output
Tool completed successfully

```

```

C:\WINDOWS\system32\cmd. x + v
Masukan Nilai Matrix:
10
20
30
40
50
60
70
80
90
10 20 30
40 50 60
70 80 90
Press any key to continue . . .

```

8. Ubahlah kembali praktik program no 7, agar menghasilkan perkalian matrik

```

Modifikasi.java * Modif_mhs.java Array2Dimensi2.java x NilaiMahasiswa
import java.util.Scanner;
public class Array2Dimensi2 {
    public static void main(String[] args){
        int b=3;int d=3; //matrik 3 baris 3 kolom
        System.out.println("Masukan Nilai Matrix:");
        int[][] matrix1=new int[b][d];
        for(int i=0;i<b;i++){
            for(int j=0;j<d;j++){
                matrix1[i][j]=input();
            }
        }

        int[][] matrix2=new int[b][d];
        for(int i=0;i<b;i++){
            for(int j=0;j<d;j++){
                matrix2[i][j]=input();
            }
        }

        int[][] matrix3=new int[b][d];
        for(int i=0;i<b;i++){
            for(int j=0;j<d;j++){
                for(int k=0;k<b;k++){
                    for(int l=0;l<d;l++){
                        matrix3[i][j]+=matrix1[i][k]*matrix2[k][j];
                    }
                }
            }
        }

        System.out.println("Matrix 1:");
        for(int i=0;i<b;i++){
            for(int j=0;j<d;j++){
                System.out.print(matrix1[i][j]+" ");
            }
        }
        System.out.println();
        System.out.println("Matrix 2:");
        for(int i=0;i<b;i++){
            for(int j=0;j<d;j++){
                System.out.print(matrix2[i][j]+" ");
            }
        }
        System.out.println();
        System.out.println("Hasil Perkalian Matrix 1 dan Matrix 2:");
        for(int i=0;i<b;i++){
            for(int j=0;j<d;j++){
                System.out.print(matrix3[i][j]+" ");
            }
        }
        System.out.println();
    }

    static int input(){ Scanner a=new Scanner(System.in);
        int b=a.nextInt(); return b;
    }
}

Tool Output
Tool completed successfully

```

```
C:\WINDOWS\system32\cmd. X + v
Masukan Nilai Matrix:
10
20
30
40
50
60
70
80
90
10
20
30
40
50
60
70
80
90
Matrix 1:
10 20 30
40 50 60
70 80 90
Matrix 2:
10 20 30
40 50 60
70 80 90
Hasil Perkalian Matrix 1 dan Matrix 2:
9000 10800 12600
19800 24300 28800
30600 37800 45000
Press any key to continue . . . |
```

B. LATIHAN

1. Buat program untuk menampilkan data nilai mahasiswa sebagai berikut :

Masukkan Jumlah Mahasiswa : 2

Mahasiswa 1

Nilai Tes 1 : 34

Nilai Tes 2 : 55

Nilai Tes 3 : 67

Mahasiswa 2

Nilai Tes 1 : 78

Nilai Tes 2 : 87

Nilai Tes 3 : 76

Daftar Nilai Mahasiswa :

	Test 1	Test 2	Test 3	Rata-rata
Mahasiswa 1	34	55	67	52.0
Mahasiswa 2	78	87	76	80.333336

Nilai Tertinggi 78 87 76 80.333336

Nilai Terendah 34 55 67 52.0

Press any key to continue ...

Kode program :

```
1. import java.util.Scanner;
2. public class JavaApplication2 {
3.     public static void main(String[] args) throws Exception {
4.         Scanner input = new Scanner(System.in);
5.         int mhs,jml, banyakTes = 3, nilai[][] , ntt[], ntr[];
6.         float rata[], jumlah[], rtt, rtr;
7.         System.out.print("Masukkan Jumlah Mahasiswa : ");
8.         mhs = input.nextInt();
9.         nilai = new int[mhs][banyakTes];
```

```

10.     jumlah = new float[mhs];
11.     rata = new float[mhs];
12.     ntt = new int[banyakTes];
13.     ntr = new int[banyakTes];
14.     System.out.println();
15.     for(int h=0;h<mhs;h++){ //Mahasiswa
16.         System.out.println("Mahasiswa " + (h+1));
17.         for(int i=0;i<banyakTes;i++){ //Tes seberapa
18.             System.out.print("Nilai Tes " + (i+1) + " : ");
19.             nilai[h][i] = input.nextInt();
20.             jumlah[h] = jumlah[h] + nilai[h][i];
21.         }
22.         rata[h] = jumlah[h]/banyakTes;
23.         System.out.println();
24.     }
25.     for(int i=0;i<banyakTes;i++){
26.         ntt[i] = nilai[0][i];
27.         ntr[i] = nilai[0][i];
28.     }
29.     rtt = rata[0];
30.     rtr = rata[0];
31.     for(int i=0;i<banyakTes;i++){
32.         for(int j=0;j<mhs;j++){
33.             if(ntt[i] < nilai[j][i]){
34.                 ntt[i] = nilai[j][i];
35.             }
36.             if(ntr[i] > nilai[j][i]){
37.                 ntr[i] = nilai[j][i];
38.             }
39.         }
40.     }
41.     for(int i=0;i<mhs;i++){
42.         if(rtt < rata[i]){
43.             rtt = rata[i];
44.         }
45.         if(rtr > rata[i]){
46.             rtr = rata[i];
47.         }
48.     }
49.     System.out.println("-----");
50.     System.out.println("Daftar Nilai Mahasiswa : ");
51.     System.out.println("-----");
52.     System.out.println();
53.     System.out.println("\t\tTest 1\tTest 2\tTest 3\tRata-rata");
54.     for(int j=0;j<mhs;j++){
55.         System.out.print("Mahasiswa " + (j+1));
56.         for(int k=0;k<banyakTes;k++){
57.             System.out.print("\t" + nilai[j][k]);
58.         }
59.         System.out.print("\t" + rata[j]);
60.         System.out.println();
61.     }
62.     System.out.println();
63.     System.out.print("Nilai Tertinggi\t");
64.     for(int j=0;j<banyakTes;j++){//Nilai tertinggi
65.         System.out.print(ntt[j] + "\t");
66.     }
67.     System.out.print(rtt);//Rata-rata tertinggi
68.     System.out.println();
69.     System.out.print("Nilai Terendah\t");
70.     for(int j=0;j<banyakTes;j++){//Nilai terendah
71.         System.out.print(ntr[j] + "\t");
72.     }
73.     System.out.print(rtr);//Rata-rata terendah
74.     System.out.println();
75. }
76. }

```


Array2Dimensi2.java *
NilaiMahasiswa_1.java *
MatriksTranspose.java *
Matrik.java

```

import java.util.Scanner;
public class NilaiMahasiswa_1 {
    public static void main(String[] args) throws Exception {
        Scanner input = new Scanner(System.in);
        int mhs, jml, banyakTes = 3, nilai[][] , ntt[], ntr[];
        float rata[], jumlah[], rtt, rtr;

        System.out.print("Masukkan Jumlah Mahasiswa : ");
        mhs = input.nextInt();
        nilai = new int[mhs][banyakTes];
        jumlah = new float[mhs];
        rata = new float[mhs];
        ntt = new int[banyakTes];
        ntr = new int[banyakTes];

        System.out.println();
        for(int h=0;h<mhs;h++){ //Mahasiswa
            System.out.println("Mahasiswa " + (h+1));
            for(int i=0;i<banyakTes;i++){ //Tes keberapa
                System.out.print("Nilai Tes " + (i+1) + " : ");
                nilai[h][i] = input.nextInt();
                jumlah[h] = jumlah[h] + nilai[h][i];
            }
            rata[h] = jumlah[h]/banyakTes;
            System.out.println();
        }

        for(int i=0;i<banyakTes;i++){
            ntt[i] = nilai[0][i];
            ntr[i] = nilai[0][i];
        }

        for(int i=0;i<mhs;i++){
            for(int j=0;j<banyakTes;j++){
                if(ntt[j] < nilai[i][j]){
                    ntt[j] = nilai[i][j];
                }
                if(ntr[j] > nilai[i][j]){
                    ntr[j] = nilai[i][j];
                }
            }
        }

        rtt = rata[0];
        rtr = rata[0];

        for(int i=0;i<mhs;i++){
            if(rtt < rata[i]){
                rtt = rata[i];
            }
            if(rtr > rata[i]){
                rtr = rata[i];
            }
        }

        System.out.println("-----");
        System.out.println("Daftar Nilai Mahasiswa : ");
        System.out.println("-----");
        System.out.println();
        System.out.println("\t\t\tTest 1\t\tTest 2\t\tTest 3\t\tRata-rata");
        for(int j=0;j<mhs;j++){
            System.out.println();
            System.out.print("Mahasiswa " + (j+1));
            for(int k=0;k<banyakTes;k++){
                System.out.print("\t" + nilai[j][k]);
            }
            System.out.print("\t" + rata[j]);
            System.out.println();
        }
        System.out.println();
        System.out.print("Nilai Tertinggi\t");
        for(int j=0;j<banyakTes;j++){//Nilai tertinggi
            System.out.print(ntt[j] + "\t");
        }
        System.out.print(rtt);//Rata-rata tertinggi
        System.out.println();
        System.out.print("Nilai Terendah\t");
        for(int j=0;j<banyakTes;j++){//Nilai terendah
            System.out.print(ntr[j] + "\t");
        }
        System.out.print(rtr);//Rata-rata terendah
        System.out.println();
    }
}

```

Tool completed successfully

C:\WINDOWS\system32\cmd.
+
v

```

Masukkan Jumlah Mahasiswa : 2

Mahasiswa 1
Nilai Tes 1 : 34
Nilai Tes 2 : 55
Nilai Tes 3 : 67

Mahasiswa 2
Nilai Tes 1 : 78
Nilai Tes 2 : 87
Nilai Tes 3 : 76

-----
Daftar Nilai Mahasiswa :
-----

          Test 1  Test 2  Test 3  Rata-rata
Mahasiswa 1    34    55    67    52.0
Mahasiswa 2    78    87    76    80.333336

Nilai Tertinggi 78    87    76    80.333336
Nilai Terendah  34    55    67    52.0
Press any key to continue . . . |

```

2. Modifikasi program Latihan 1 untuk menambah data inputan menampilkan : Nama, Nim dan Jurusan

Modifikasi.javaModif_mhs.javaArray2Dimensi2.javaNilaiMahasiswa_1.javaMatriksTranspose.java

```
import java.util.Scanner;
public class Modifikasi {
    public static void main(String[] args) throws Exception {
        Scanner input = new Scanner(System.in);
        int mhs, banyakTes = 3;
        String nama[], nim[], jurusan[];
        int nilai[][], ntt[], ntr[];
        float rata[], jumlah[], rtt, rtr;

        System.out.print("Masukkan Jumlah Mahasiswa : ");
        mhs = input.nextInt();

        nilai = new int[mhs][banyakTes];
        jumlah = new float[mhs];
        rata = new float[mhs];
        ntt = new int[banyakTes];
        ntr = new int[banyakTes];
        nama = new String[mhs];
        nim = new String[mhs];
        jurusan = new String[mhs];

        System.out.println();
        for (int h = 0; h < mhs; h++) { // Mahasiswa
            System.out.println("Mahasiswa " + (h + 1));
            System.out.print("NIM : ");
            nim[h] = input.next();
            System.out.print("Nama : ");
            nama[h] = input.next();
            System.out.print("Jurusan : ");
            jurusan[h] = input.next();

            for (int i = 0; i < banyakTes; i++) { // Tes beberapa
                System.out.print("Nilai Tes " + (i + 1) + " : ");
```

Modifikasi.javaModif_mhs.javaArray2Dimensi2.javaNilaiMahasiswa_1.javaMatriksTranspose.javaMatrik.javaArray2_2.java

```
        jurusan[h] = input.next();

        for (int i = 0; i < banyakTes; i++) { // Tes beberapa
            System.out.print("Nilai Tes " + (i + 1) + " : ");
            nilai[h][i] = input.nextInt();
            jumlah[h] = jumlah[h] + nilai[h][i];
        }
        rata[h] = jumlah[h] / banyakTes;
        System.out.println();

        for (int i = 0; i < banyakTes; i++) {
            ntt[i] = nilai[0][i];
            ntr[i] = nilai[0][i];
        }
        rtt = rata[0];
        rtr = rata[0];
        for (int i = 0; i < banyakTes; i++) {
            for (int j = 0; j < mhs; j++) {
                if (ntt[i] < nilai[j][i]) {
                    ntt[i] = nilai[j][i];
                }
                if (ntr[i] > nilai[j][i]) {
                    ntr[i] = nilai[j][i];
                }
            }
        }
        for (int i = 0; i < mhs; i++) {
            if (rtt < rata[i]) {
                rtt = rata[i];
            }
            if (rtr > rata[i]) {
                rtr = rata[i];
            }
        }

        System.out.println("-----");
        System.out.println("Daftar Nilai Mahasiswa : ");
        System.out.println("-----");
        System.out.println();
        System.out.print("\t\t\tTest 1\tTest 2\tTest 3\tRata-rata");
        for (int j = 0; j < mhs; j++) {
            System.out.print("Mahasiswa " + (j + 1) + "\t" + nim[j] + "\t" + nama[j] + "\t" + jurusan[j]);
            for (int k = 0; k < banyakTes; k++) {
                System.out.print("\t" + nilai[j][k]);
            }
            System.out.print("\t" + rata[j]);
            System.out.println();
        }
        System.out.println();
        System.out.print("Nilai Tertinggi");
        for (int j = 0; j < banyakTes; j++) { // Nilai tertinggi
            System.out.print(ntt[j] + "\t");
        }
        System.out.println();
        System.out.print(rtt); // Rata-rata tertinggi
        System.out.println();
        System.out.print("Nilai Terendah");
        for (int j = 0; j < banyakTes; j++) { // Nilai terendah
            System.out.print(ntr[j] + "\t");
        }
        System.out.println();
        System.out.print(rtr); // Rata-rata terendah
        System.out.println();
    }
}
```

Tool Output

Tool completed successfully

C:\WINDOWS\system32\cmd

```
Masukkan Jumlah Mahasiswa : 2

Mahasiswa 1
NIM : 233210006
Nama : Jesika
Jurusan : sia
Nilai Tes 1 : 34
Nilai Tes 2 : 55
Nilai Tes 3 : 67

Mahasiswa 2
NIM : 233210010
Nama : Fia
Jurusan : sia
Nilai Tes 1 : 78
Nilai Tes 2 : 87
Nilai Tes 3 : 76

-----
Daftar Nilai Mahasiswa :

                Test 1 Test 2 Test 3 Rata-rata
Mahasiswa 1    233210006 Jesika sia 34    55    67    52.0
Mahasiswa 2    233210010 Fia   sia 78    87    76    80.333336

Nilai Tertinggi 78    87    76    80.333336
Nilai Terendah 34    55    67    52.0
Press any key to continue . . .
```