Praktikum

1.

Arr1.java × Arr2.java Arr3.java Arr3While.java Arr4.java

```
class Arr1{
    ▶ Run | Debug
    public static void main(String[] args) {

        int[][]nilai=new int[2][3];
        nilai[0][0]=12;  nilai[0][1]=14;    nilai[0][2]=34;
        nilai[1][0]=30;  nilai[1][1]=21;    nilai[1][2]=67;

        System.out.println(nilai[0][0]+" "+nilai[0][1]+" "+nilai[0][2]);
        System.out.println(nilai[1][0]+" "+nilai[1][1]+" "+nilai[1][2]);
    }
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Windows PowerShell
PS D:\Tugas\Tugas Polinema\Dasar Pemrograman\Tugas 9\Praktikum> cd "d:\Tugas\Tugas Polin
f ($?) { javac Arr1.java } ; if ($?) { java Arr1 }
12 14 34
30 21 67
PS D:\Tugas\Tugas Polinema\Dasar Pemrograman\Tugas 9\Praktikum>
```

2. .

```
class Arr2{
    ▶ Run | Debug
    public static void main(String[] args) {

        int[][]nilai=new int[2][3];
        nilai[0][0]=12;  nilai[0][1]=14;    nilai[0][2]=34;
        nilai[1][0]=30;  nilai[1][1]=21;    nilai[1][2]=67;

        for (int i=0; i<2; i++){
            for (int j=0; j<3; j++){
                System.out.print(nilai[i][j] +" ");
            }
            System.out.println(" ");
        }
    }
}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Windows PowerShell
PS D:\Tugas\Tugas Polinema\Dasar Pemrograman\Tugas 9\Praktikum> cd "d:\Tu
}
12 14 34
30 21 67
```

3. .

Arr1.java | Arr2.java | Arr3.java × | Arr3While.java | Arr4.java

```java
import java.util.Scanner;
class Arr3{
    ▶ Run | Debug
    public static void main(String[] args) {
        Scanner input=new Scanner(System.in);
        int [][] nilai=new int [2][3];

        for (int i=0; i<2; i++){
            for (int j=0; j<3; j++){
                System.out.print("Masukkan nilai ke-["+i+"]["+j+"] : ");
                nilai[i][j]=input.nextInt();
            }
            System.out.println("------------------------");
        }
        for(int i=0; i<2; i++){
            for (int j=0; j<3; j++){
                System.out.print(nilai[i][j]+" ");
            }
            System.out.println();
        }
    }
}
```

```
Masukkan nilai ke-[0][0] : 2
Masukkan nilai ke-[0][1] : 2
Masukkan nilai ke-[0][2] : 2
------------------------
Masukkan nilai ke-[1][0] : 3
Masukkan nilai ke-[1][1] : 3
Masukkan nilai ke-[1][2] : 3
------------------------
2 2 2
3 3 3
```

Dengan Menggunakan While

```java
import java.util.Scanner;
class Arr3While{
    ▶ Run | Debug
    public static void main(String[] args) {
        Scanner input=new Scanner(System.in);
        int [][] nilai=new int [2][3];

        int a=0;
        while(a<2){
            int b=0;
            while(b<3){
                System.out.print("Masukkan nilai ke-["+a+"]["+b+"] : ");
                nilai[a][b]=input.nextInt();
                b++;
            }
            System.out.println("------------------------");
            a++;
        }
        int j=0;
        while(j<2){
            int b=0;
            while(b<3){
                System.out.print(nilai[j][b]+" ");
                b++;
            }
            System.out.println();
            j++;
        }
    }
}
```

```
Masukkan nilai ke-[0][0] : 4
Masukkan nilai ke-[0][1] : 4
Masukkan nilai ke-[0][2] : 4
------------------------
Masukkan nilai ke-[1][0] : 2
Masukkan nilai ke-[1][1] : 2
Masukkan nilai ke-[1][2] : 2
------------------------
4 4 4
2 2 2
```

4. .

```java
import java.util.Scanner;
class Arr4{
    Run | Debug
    public static void main(String[] args) {
    Scanner input = new Scanner(System.in);
    int barisA, kolomA;
        System.out.print("Masukkan Size Baris Matriks A : ");
        barisA = input.nextInt();
        System.out.print("Masukkan Size Kolom Matriks A : ");
        kolomA = input.nextInt();

    int[][] MatrikA = new int[barisA][kolomA];


    System.out.println("Input Elemen Matriks A : ");
        for (int i = 0; i < barisA; i++) {
            for (int j = 0; j < kolomA; j++) {
                System.out.print("Matrik A[" + i + "][" + j + "]" + ": ");
                MatrikA[i][j] = input.nextInt();
            }
            System.out.println();
        }

    System.out.println("Hasil output matriknya adalah : ");
        for (int i = 0; i < barisA; i++) {
            for (int j = 0; j < kolomA; j++) {
                System.out.print(MatrikA[i][j]+" ");
            }
            System.out.println();
        }

    }
}
```

```
PS D:\Tugas\Tugas Polinema\Dasar Pemrograman\Tugas 9\Praktikum>
}
Masukkan Size Baris Matriks A : 2
Masukkan Size Kolom Matriks A : 4
Input Elemen Matriks A :
Matrik A[0][0]: 2
Matrik A[0][1]: 2
Matrik A[0][2]: 2
Matrik A[0][3]: 2

Matrik A[1][0]: 4
Matrik A[1][1]: 4
Matrik A[1][2]: 4
Matrik A[1][3]: 4

Hasil output matriknya adalah :
2 2 2 2
4 4 4 4
```

Dengan menggunakan do while dan while

```
3       public static void main(String[] args) {
4       Scanner input = new Scanner(System.in);
5       int barisA, kolomA;
6           System.out.print("Masukkan Size Baris Matriks A : ");
7           barisA = input.nextInt();
8           System.out.print("Masukkan Size Kolom Matriks A : ");
9           kolomA = input.nextInt();
10      int[][] MatrikA = new int[barisA][kolomA];
11      System.out.println("Input Elemen Matriks A : ");
12          int i=0;
13          while(i<barisA){
14              int j=0;
15              while(j<kolomA){
16                  System.out.print("Matrik A[" + i + "][" + j + "]" + ": ");
17                  MatrikA[i][j] = input.nextInt();
18                  j++;
19              }
20              System.out.println();
21              i++;
22          }
23      System.out.println("Hasil output matriknya adalah : ");
24          int a=0;
25          do{
26              int b=0;
27              do{
28                  System.out.print(MatrikA[a][b]+" ");
29                  b++;
30              }while(b<kolomA);
31              System.out.println();
32              a++;
33          }while(a<barisA);
34      }
35  }
```

```
Masukkan Size Baris Matriks A : 2
Masukkan Size Kolom Matriks A : 4
Input Elemen Matriks A :
Matrik A[0][0]: 4
Matrik A[0][1]: 4
Matrik A[0][2]: 4
Matrik A[0][3]: 4

Matrik A[1][0]: 2
Matrik A[1][1]: 2
Matrik A[1][2]: 2
Matrik A[1][3]: 2

Hasil output matriknya adalah :
4 4 4 4
2 2 2 2
```