

# Jawaban Jobsheet 9

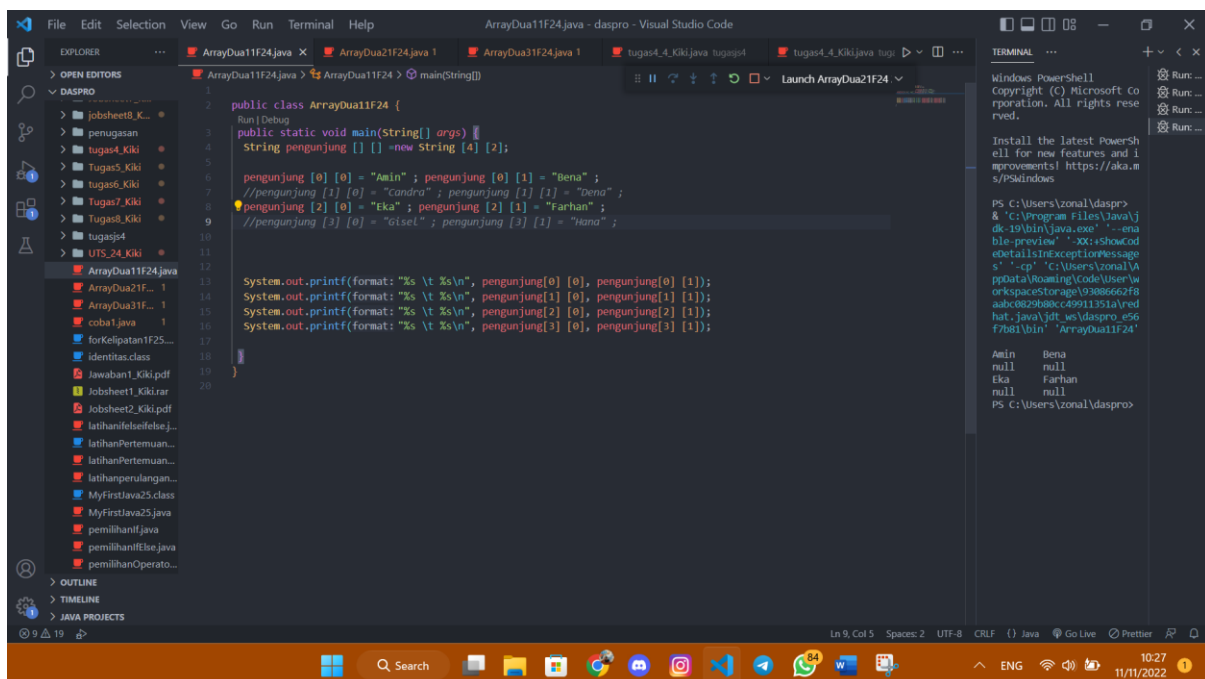
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Kelas : 1F

Absen : 24

## 2.1 Percobaan 1: Deklarasi, Inisialisasi, dan Menampilkan Array 2 Dimensi

1. Tidak, karena berdasarkan sifat array yaitu random access maka array bisa diisi tidak harus secara berurutan, bisa dimulai dari berapapun namun masih berada dalam batas.
2. Bisa, namun baris ke 2 dan ke-4 akan bernilai null, karena tipe data string.



```
File Edit Selection View Go Run Terminal Help
ArrayDua11F24.java - daspro - Visual Studio Code

EXPLORER
  OPEN EDITORS
  DASPRO
    jobsheet1_Kiki...
    tugas4_Kiki
    tugas5_Kiki
    tugas6_Kiki
    tugas7_Kiki
    tugas8_Kiki
    tugas9
    UTS_24_Kiki
    ArrayDua11F24.java
    ArrayDua21F...
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    coba1.java
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    identitas.class
    Jawaban1_Kiki.pdf
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    latihanIfElseIfElsej...
    latihanPertemuan...
    latihanPertemuan...
    latihanPerulangan...
    MyFirstJava25.class
    MyFirstJava25.java
    pemilihan1.java
    pemilihanIfElse.java
    pemilihanOperato...

OUTLINE
TIMELINE
JAVA PROJECTS

ArrayDua11F24.java
  public class ArrayDua11F24 {
  public static void main(String[] args) {
    String pengunjung [] [] =new String [4] [2];

    pengunjung [0] [0] = "Amin" ; pengunjung [0] [1] = "Bena" ;
    //pengunjung [1] [0] = "Candra" ; pengunjung [1] [1] = "Dena" ;
    pengunjung [2] [0] = "Eka" ; pengunjung [2] [1] = "Farhan" ;
    //pengunjung [3] [0] = "Gisel" ; pengunjung [3] [1] = "Hana" ;

    System.out.printf(format: "%s \t %s\n", pengunjung[0] [0], pengunjung[0] [1]);
    System.out.printf(format: "%s \t %s\n", pengunjung[1] [0], pengunjung[1] [1]);
    System.out.printf(format: "%s \t %s\n", pengunjung[2] [0], pengunjung[2] [1]);
    System.out.printf(format: "%s \t %s\n", pengunjung[3] [0], pengunjung[3] [1]);
  }
}

TERMINAL
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\zonal\daspro>
& 'C:\Program Files\Java\jdk-19\bin\java.exe' '-enable-preview' '-XX:ShowCodeDetailsInExceptionMessage' '-cp' 'C:\Users\zonal\workspaceStorage\93086662F8aabc0629b8acc09911351a\redhat-java\jdk_19\daspro_256f7b81\bin' 'ArrayDua11F24'

Amin    Bena
null     null
Eka      Farhan
null     null
PS C:\Users\zonal\daspro>
```

## 2.2 Percobaan 2 : Memanfaatkan Scanner dan Perulangan untuk Input dan Output pada Array 2 Dimensi

1. Ya, karena jika dengan menggunakan perulangan pengisian akan dilakukan secara berurutan sesuai dengan urutan nilai yang increment.
2. yang terjadi adalah output sama dengan program yang sebelumnya, yang sebelum diubah. Fungsi dari pengunjung.length adalah untuk menentukan jumlah elemen baris dari array pengunjung sedangkan pengunjung[0].length digunakan untuk menentukan jumlah elemen kolom pada array pengunjung.

3.

```

ArrayDua21F24.java > ArrayDua21F24 > main(String[])
1 import java.util.Scanner;
2 public class ArrayDua21F24 {
3     public static void main(String[] args) {
4         Scanner sc=new Scanner(System.in);
5         System.out.print(s: "Masukkan Nilai baris : ");
6         int baris=sc.nextInt();
7         System.out.print(s: "Masukkan Nilai Kolom : ");
8         int kolom=sc.nextInt();
9
10        String [] [] penguinjung= new String [baris] [kolom];
11
12        for (int baris=0;baris<penguinjung.length;baris++) {
13            for (int kolom=0;kolom<penguinjung[0].length;kolom++) {
14                System.out.printf(format: "Masukkan penguinjung ke [%s] [%s] : ", baris, kolom);
15                penguinjung[baris][kolom] = sc.next();
16                sc.nextLine();
17            }
18            System.out.println(x: "-----");
19        }
20        for (String array[] : penguinjung) {
21            for (String ar : array) {
22                System.out.printf(format: "%s", ar);
23            }
24            System.out.println(x: "");
25        }
26    }
27 }
28
29

```

```

PS C:\Users\zonal\daspro>
& 'C:\Program Files\Java\jdk-19\bin\java.exe' '-
-enable-preview' '-XX:+ShowCodeDetailsInExceptionM
essages' '-cp' 'C:\Users\zonal\AppData\Roaming\Code
e\User\workspaceStorage\93086662f8aabc0829088cc499
11351a\redhat.java\jdk_ws
\daspro_e56f7b81\bin' 'Ar
rayDua21F24'
Masukkan Nilai baris : 2
Masukkan Nilai Kolom : 2
Masukkan penguinjung ke [0
] [0] : 1
Masukkan penguinjung ke [0
] [1] : 1
-----
Masukkan penguinjung ke [1
] [0] : 1
Masukkan penguinjung ke [1
] [1] : 1
-----
11
11
PS C:\Users\zonal\daspro>

```

4. Tidak ada yang berubah, yang terjadi sama dengan sebelumnya yaitu perintah ke 7, aktivitas yang terjadi adalah for each loop

## 2.3 Percobaan 3 : Mencari Nilai Terendah, Nilai Tertinggi, dan Menghitung Rata-rata pada Array 2 Dimensi

1.

```

        rata[j]=total[j]/data[0].length;
    }
}
System.out.println(x: "-----");
for (int i=0; i<data.length;i++) {
    for (int j=0;j<data[0].length;j++) {
        if (j==2) {
            System.out.printf(data[i][2] + " ");
        }
    }
}

```

2.

```

File Edit Selection View Go Run Terminal Help
ArrayDua31F24.java - daspro - Visual Studio Code

ArrayDua31F24.java > ArrayDua31F24 > main(String[])
import java.util.Scanner;
public class ArrayDua31F24 {
    Run[Debug]
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        int data[] [] = new int [4] [4];
        int jam [] = {5,6,9,12};
        int min [] = {100, 100, 100, 100};
        int max [] = {0,0,0,0};

        double total [] = {0,0,0,0};
        double rata [] = {0,0,0,0};

        for (int i=0; i<data.length; i++) {
            System.out.printf(format: "jam %s \n", jam[i]);
            for (int j=0; j<data[0].length; j++) {
                switch (j) {
                    case 0:
                        System.out.print(s: "Masukkan suhu :");
                        data [i][j] = sc.nextInt();
                        if (min[j] > data [i][j]) {
                            min [j] = data [i][j];
                        }
                        if (max [j] < data [i][j]) {
                            max [j] = data [i][j];
                        }
                        total [j] += data [i][j];
                        break;
                    case 1:
                        System.out.print(s: "Masukkan kelembapan :");
                        data [i][j] = sc.nextInt();
                        if (min[j] > data [i][j]) {
                            min [j] = data [i][j];
                        }
                        if (max [j] < data [i][j]) {
                            max [j] = data [i][j];
                        }
                        total [j] += data [i][j];
                        break;
                    case 2:
                        System.out.print(s: "Masukkan kecepatan angin :");
                        data [i][j] = sc.nextInt();
                        if (min[j] > data [i][j]) {
                            min [j] = data [i][j];
                        }
                }
            }
        }

        System.out.println(x: "");
        System.out.print(x: "-----");
        for (int i=0; i<data.length; i++) {
            for (int j=0; j<data[0].length; j++) {
                if (j==2) {
                    System.out.printf(data[i][j] + " ");
                }
            }
            System.out.println(x: "");
        }

        System.out.print(x: "-----");
        System.out.printf(format: "Rata-Rata suhu : %.2f\n", rata[0]);
        System.out.printf(format: "Presentase kelembapan terendah : %s\n", min[1]);
        System.out.printf(format: "Presentase indeks UV tertinggi : %s\n", max[3]);
    }
}

```

Terminal Output:

```

User\workspaceStorage\9380...
3
Masukkan index UV : 4
jam 5
Masukkan suhu : 1
Masukkan kelembapan : 1
Masukkan kecepatan angin : 1
Masukkan index UV : 1
jam 9
Masukkan suhu : 1
Masukkan kelembapan : 1
Masukkan kecepatan angin : 1
Masukkan index UV : 1
jam 12
Masukkan suhu : 1
Masukkan kelembapan : 1
Masukkan kecepatan angin : 1
Masukkan index UV : 1
-----
Rata-Rata suhu : 1.00
Presentase kelembapan terendah : 1
Presentase indeks UV tertinggi : 4
PS C:\Users\tonal\daspro>

```

```

File Edit Selection View Go Run Terminal Help
ArrayDua31F24.java - daspro - Visual Studio Code

ArrayDua31F24.java > ArrayDua31F24 > main(String[])
case 3:
    System.out.print(s: "Masukkan index UV :");
    data [i][j] = sc.nextInt();
    if (min[j] > data [i][j]) {
        min [j] = data [i][j];
    }
    if (max [j] < data [i][j]) {
        max [j] = data [i][j];
    }
    total [j] += data [i][j];
    break;
}
rata[j] = total[j] / data[0].length;
}
System.out.println(x: "-----");
for (int i=0; i<data.length; i++) {
    for (int j=0; j<data[0].length; j++) {
        if (j==2) {
            System.out.printf(data[i][j] + " ");
        }
    }
    System.out.println(x: "");
}

System.out.print(x: "-----");
System.out.printf(format: "Rata-Rata suhu : %.2f\n", rata[0]);
System.out.printf(format: "Presentase kelembapan terendah : %s\n", min[1]);
System.out.printf(format: "Presentase indeks UV tertinggi : %s\n", max[3]);
}
}

```

Terminal Output:

```

User\workspaceStorage\9380...
3
Masukkan index UV : 4
jam 5
Masukkan suhu : 1
Masukkan kelembapan : 1
Masukkan kecepatan angin : 1
Masukkan index UV : 1
jam 9
Masukkan suhu : 1
Masukkan kelembapan : 1
Masukkan kecepatan angin : 1
Masukkan index UV : 1
jam 12
Masukkan suhu : 1
Masukkan kelembapan : 1
Masukkan kecepatan angin : 1
Masukkan index UV : 1
-----
Rata-Rata suhu : 1.00
Presentase kelembapan terendah : 1
Presentase indeks UV tertinggi : 4
PS C:\Users\tonal\daspro>

```

3.

```

System.out.println(x: ""); }
}
System.out.println(x: "-----");
System.out.printf(format: "Rata-Rata suhu : %.2f\n", rata[0]);
System.out.printf(format: "Presentase kelembapan terendah : %s\n", min[1]);
System.out.printf(format: "Presentase indeks UV tertinggi : %s\n", max[3]);

```