

DOCUMENTATION

Arrays

Marasigan, Vem Aiensi A.

December 4, 2021

1-BSEMC-.1

BS Computer Science

ArrayCabinet

```
1 package labAct3Arrays;
2 //Marasigan, Vem Aiensi A. 1-BSEMC-.1
3 public class ArrayCabinet
4 {
5     public static void main(String[] args)
6     {
7         String[] cabinet = new String[4];
8         cabinet[0] = "socks";
9         cabinet[1] = "underwear";
10        cabinet[2] = "shirts";
11        cabinet[3] = "dresser";
12
13        System.out.println("The contents of the cabinet are: \n");
14
15        int i = 0;
16        while (i < cabinet.length)
17        {
18            System.out.println(cabinet[i]);
19            i++;
20        }
21    }
22 }
23
```

Console X

<terminated> ArrayCabinetV2 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (4 Dec 2021, 6:1

The contents of the cabinet are:

socks

underwear

shirts

dresser

Video Link: <https://drive.google.com/file/d/1BOi1HI4QWULUWwmmOo5Xa-InyaZmy8mX/view?usp=sharing>

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ArrayCabinetV2

```
1 package labAct3Arrays;
2 //Marasigan, Vem Aiensi A. 1-BSEMC-.1
3 public class ArrayCabinetV2
4 {
5     public static void main(String[] args)
6     {
7         String[] cabinet = {"socks", "underwear", "shirts", "dresser"};
8
9         System.out.println("The contents of the cabinet are:");
10
11         int i = 0;
12         while (i < cabinet.length)
13         {
14             System.out.println(cabinet[i]);
15             i++;
16         }
17     }
18 }
19
```

Console X

<terminated> ArrayCabinetV2 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (4 Dec 2021, 6:

The contents of the cabinet are:

socks

underwear

shirts

dresser

Video Link: https://drive.google.com/file/d/1KrE41x_6Hnlz2qaRhd998oCUKCyNIRNW/view?usp=sharing

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```
1 package labAct3Arrays;
2 //Marasigan, Vem Aiensi A. 1-BSEMC-.1
3 import java.util.Scanner;
4 import java.text.DecimalFormat;
5 public class Salary
6 {
7     public static void main(String[] args)
8     {
9         Scanner input = new Scanner(System.in);
10        DecimalFormat df = new DecimalFormat("$#,###.00");
11
12        int numEmp = 0;
13        String[] name;
14        double[] rate;
15        double[] hoursWorked;
16
17        System.out.print("Enter number of employees to process: ");
18        numEmp = input.nextInt();
19
20        name = new String[numEmp];
21        rate = new double[numEmp];
22        hoursWorked = new double[numEmp];
23
24        int indexNum = 0;
25        while (indexNum < numEmp)
26        {
27            System.out.print("\nEnter Employee name: ");
28            name [indexNum] = input.next();
29
30            System.out.print("Enter number of hours worked: ");
31            hoursWorked [indexNum] = input.nextDouble();
32
33            System.out.print("Enter rate per hour: ");
34            rate [indexNum] = input.nextDouble();
35
36            indexNum++;
37        }
38
39        //Printing of Headers
40        System.out.println("\nSalary Report");
41        System.out.println("-----");
42        System.out.println("Name\tRate per Hour\tHours Worked\tSalary\n");
43
44        for (int i = (numEmp - 1); i >= 0; i--)
45        {
46            System.out.print(name[i] + "\t");
47            System.out.print(df.format(rate[i]) + "\t\t");
48            System.out.print(hoursWorked[i] + "\t\t");
49            System.out.println(df.format(hoursWorked[i] * rate[i]));
50        }
51    }
52 }
53
```

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Arrays

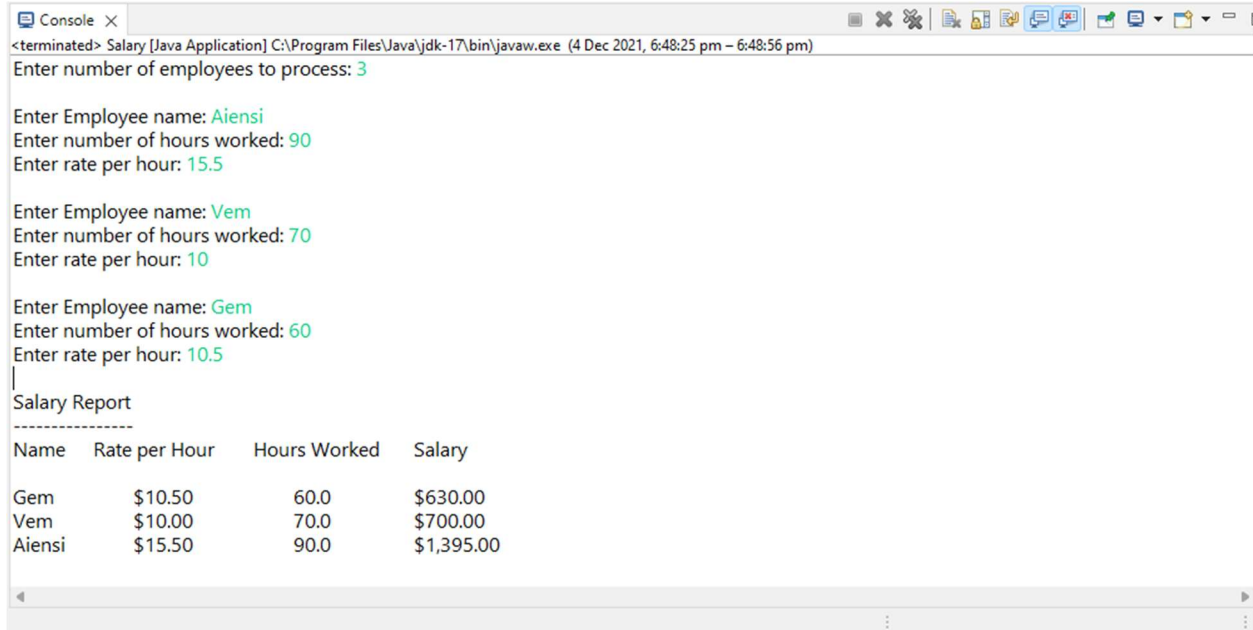
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Sample Input & Output of Program **Salary**



```
<terminated> Salary [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (4 Dec 2021, 6:48:25 pm - 6:48:56 pm)
Enter number of employees to process: 3

Enter Employee name: Aiensi
Enter number of hours worked: 90
Enter rate per hour: 15.5

Enter Employee name: Vem
Enter number of hours worked: 70
Enter rate per hour: 10

Enter Employee name: Gem
Enter number of hours worked: 60
Enter rate per hour: 10.5
|
Salary Report
-----
Name    Rate per Hour    Hours Worked    Salary
Gem      $10.50           60.0            $630.00
Vem      $10.00           70.0            $700.00
Aiensi   $15.50           90.0            $1,395.00
```

Video Link: https://drive.google.com/file/d/1iVx_1zcxrGoXk1fk_aeW5r7GXlOwmB5/view?usp=sharing

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December 4, 2021

SimulateEx18

```
1 package labAct3Arrays;
2 //Marasigan, Vem Aiensi A.
3 public class SimulateEx18
4 {
5     public static void main(String[] args)
6     {
7         int[] number = {1, 4, 9, 16, 9, 7, 4, 9, 11};
8         int i, altSum = 0;
9         for (i = 0; i < number.length; i++)
10         {
11             if ((i + 1) % 2 == 1)
12             {
13                 altSum += number[i];
14             }
15             else
16             {
17                 altSum -= number[i];
18             }
19         }
20         System.out.print("Sum is " + altSum);
21     }
22 }
23
```

Console X

<terminated> SimulateEx18 [Java Application] C:\Program Files\Java\jdk-17\bin\jav
Sum is -2

Video Link: <https://drive.google.com/file/d/1wsbrG1rU9ups3Aq1hb9qafQrCfbwfiaP/view?usp=sharing>