

Example 1: Swap the maximum

1. Source Code:

```
SwapMax.java
1 import java.util.Scanner;
2
3 public class SwapMax {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner keyboard = new Scanner (System.in);
8         int[] array = new int[5];
9         for (int i = 0; i < array.length; i++) {
10             System.out.print("Enter an integer: ");
11             array[i] = keyboard.nextInt();
12         }
13
14         for (int i = 0; i < array.length - 1; i++) {
15             if (array[i] > array[i + 1]) {
16                 int temp = array[i];
17                 array[i] = array[i + 1];
18                 array[i + 1] = temp;
19             }
20         }
21         for (int i = 0; i < array.length; i++) {
22             System.out.print(array[i] + " ");
23         }
24     }
25 }
```

2. Output:

```
Problems Javadoc Declaration Console
<terminated> SwapMax [Java Application] C:\Users\jpmd1\
Enter an integer: 2
Enter an integer: 1
Enter an integer: 3
Enter an integer: 5
Enter an integer: 6
1 2 3 5 6
```

Example 2: Minimum odd integer

1. Source Code:

```
MinOdd.java
1 import java.util.Scanner;
2
3 public class MinOdd {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner keyboard = new Scanner (System.in);
8         int[] arr = new int[8];
9         for (int i = 0; i < arr.length; i++) {
10             System.out.print("Enter an integer: ");
11             arr[i] = keyboard.nextInt();
12         }
13         System.out.print("The minimum odd number is: " + getOddMin(arr));
14     }
15
16     public static int getOddMin(int[] array) {
17         int min = array[0];
18         for (int i = 0; i < array.length; i++) {
19             if (array[i] % 2 != 0) {
20                 if (array[i] < min) {
21                     min = array[i];
22                 }
23             }
24         }
25         return min;
26     }
27 }
```

2. Output:

```
Problems @ Javadoc Declaration Console
<terminated> MinOdd [Java Application] C:\Users\jpm...
Enter an integer: 2
Enter an integer: 3
Enter an integer: 1
Enter an integer: 5
Enter an integer: 4
Enter an integer: 6
Enter an integer: 7
Enter an integer: 8
The minimum odd number is: 1
```

Example 3: 2D array

1. Source code:

```
SalesArray.java
1 import java.util.Scanner;
2
3 public class SalesArray {
4
5     public static void main(String[] args) {
6         // TODO Auto-generated method stub
7         Scanner keyboard = new Scanner (System.in);
8         int[][] sales = new int[2][3];
9         for (int row = 0; row < 2; row++) {
10             for (int col = 0; col < 3; col++) {
11                 System.out.print("Enter a sales number: ");
12                 sales[row][col] = keyboard.nextInt();
13             }
14         }
15         int max = sales[0][0];
16         int min = sales[0][0];
17         for (int row = 0; row < 2; row++) {
18             for (int col = 0; col < 3; col++) {
19                 if (sales[row][col] < min) {
20                     min = sales[row][col];
21                 }
22                 if (sales[row][col] > max) {
23                     max = sales[row][col];
24                 }
25             }
26         }
27         System.out.println("The maximum sales number is: " + max);
28         System.out.println("The minimum sales number is: " + min);
29     }
30 }
```

2. Output:

```
Problems @ Javadoc Declaration Console
<terminated> SalesArray [Java Application] C:\Users\jpmc
Enter a sales number: 40
Enter a sales number: 100
Enter a sales number: 50
Enter a sales number: 30
Enter a sales number: 60
Enter a sales number: 70
The maximum sales number is: 100
The minimum sales number is: 30
```