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Project Explorer

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first.jsp menu.jsp contact.jsp admin.jsp admin_pannel... login_custom... login.jsp task_4.java task_5.java task5.java

```java
1  package tejal;
2
3
4  import java.util.Scanner;
5
6  public class task5 {
7
8      public static void main(String[] args) {
9
10         Scanner sc = new Scanner(System.in);
11
12         // ---------- 1D ARRAY ----------
13         System.out.print("Enter number of elements: ");
14         int n = sc.nextInt();
15
16         int[] arr = new int[n];
17
18         // Input elements
19         System.out.println("Enter elements:");
20         for (int i = 0; i < n; i++) {
21             arr[i] = sc.nextInt();
22         }
23
```

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<terminated> task_5 [Java Application] C:\Users\visha\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\javaw.exe (22-Jan-2026, 7:14:58 pm – 7:15:06 pm elapsed: 0:00:08.196) [pic

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```
23
24        // Sum, Max, Min
25        int sum = 0;
26        int max = arr[0];
27        int min = arr[0];
28
29        for (int i = 0; i < n; i++) {
30            sum += arr[i];
31
32            if (arr[i] > max)
33                max = arr[i];
34
35            if (arr[i] < min)
36                min = arr[i];
37        }
38
39        double average = (double) sum / n;
40
41        // ---------- MANUAL SORTING (Bubble Sort) ----------
42        for (int i = 0; i < n - 1; i++) {
43            for (int j = 0; j < n - i - 1; j++) {
44                if (arr[j] > arr[j + 1]) {
45                    int temp = arr[j];
```

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<terminated> task_5 [Java Application] C:\Users\visha\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.7.v20250502-0916\jre\bin\jav

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Project Explorer

first.jsp   menu.jsp   contact.jsp   admin.jsp   admin_pannel...   login_custom...   login.jsp   task_4.java   task_5.java   task5.java

```
43°            for (int j = 0; j < n - 1 - i; j++) {
44°                if (arr[j] > arr[j + 1]) {
45                     int temp = arr[j];
46                     arr[j] = arr[j + 1];
47                     arr[j + 1] = temp;
48                 }
49             }
50         }
51
52         // ---------- OUTPUT ----------
53         System.out.println("\n--- Array Analysis Output ---");
54         System.out.println("Sum     : " + sum);
55         System.out.println("Average : " + average);
56         System.out.println("Maximum : " + max);
57         System.out.println("Minimum : " + min);
58
59         System.out.print("Sorted Array: ");
60°        for (int i = 0; i < n; i++) {
61             System.out.print(arr[i] + " ");
62         }
63
64         // ---------- 2D ARRAY ----------
65         System.out.println("\n\n--- 2D Array Example ---");
```

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```java
        int[][] matrix = {
            {1, 2, 3},
            {4, 5, 6}
        };

        for (int i = 0; i < matrix.length; i++) {
            for (int j = 0; j < matrix[i].length; j++) {
                System.out.print(matrix[i][j] + " ");
            }
            System.out.println();
        }

        // ---------- EXCEPTION HANDLING ----------
        try {
            System.out.println("\nAccessing invalid index:");
            System.out.println(arr[100]); // Invalid index
        } catch (ArrayIndexOutOfBoundsException e) {
            System.out.println("Exception Caught: Array index out o
        }

        sc.close();
    }
}
```

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```
66              int[][] matrix = {
```

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```
Enter number of elements: 2
Enter elements:
2
4


--- Array Analysis Output ---
Sum      : 6
Average : 3.0
Maximum : 4
Minimum : 2
Sorted Array: 2 4

--- 2D Array Example ---
1 2 3
4 5 6


Accessing invalid index:
Exception Caught: Array index out of bounds!
```

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