

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer View:** Shows the project structure. The main source folder is "src". Inside "src", there are two packages: "komal1" and "tejal". The "komal1" package contains files like demo.java, slip10q1.java, slip13q2.java, slip14q1.java, slip17q2.java, slip19q1.java, slip1q1.java, slip21q1.java, and slip21q2.java. The "tejal" package contains files like aidsjava.java, demo.java, task3.java, task.java, task2.java, task4.java, and task5.java. Both packages also contain a module-info.java file.
- Code Editor View:** Displays the Java code for "task5.java". The code is as follows:

```
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     }
24 }
```

- Bottom Status Bar:** Shows the status bar with the message "<terminated> task_5 [Java Application] C:\Users\visha\p2\pool\plugins\org.eclipse.jst.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)".

eclipse-workspace - tejaj/src/tejal/task5.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help  
Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin_panel... login_custom... login.jsp task_4.java task_5.java task5.java X  
JRE System Library [JavaSE-21]  
src  
komal1  
demo.java  
slip10q1.java  
slip13q2.java  
slip14q1.java  
slip17q2.java  
slip19q1.java  
slip1q1.java  
slip21q1.java  
slip21q2.java  
task_2.java  
task_4.java  
task_5.java  
task.java  
task3.java  
module-info.java  
multithread  
opps  
Servers  
stringtype  
task  
tejal  
src  
tejal  
aidis.java  
demo.java  
task1.java  
task2.java  
task4.java  
task5.java  
module-info.java  
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];  
46                arr[j] = arr[j + 1];  
47                arr[j + 1] = temp;  
48            }  
49        }  
50    }  
51  
52    System.out.println("Sum = " + sum);  
53    System.out.println("Max = " + max);  
54    System.out.println("Min = " + min);  
55    System.out.println("Average = " + average);  
56  
57    return sum;  
58}
```

Snipping Tool

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Mark-up and share

eclipse-workspace - tejal/src/tejal/task5.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin_panel.jsp login_custom.jsp login.jsp task_4.java task_5.java task5.java

JRE System Library [JavaSE-21]

src

- komal1
 - demo.java
 - slip10q1.java
 - slip13q2.java
 - slip14q1.java
 - slip17q2.java
 - slip19q1.java
 - slip1q1.java
 - slip21q1.java
 - slip21q2.java
 - task_2.java
 - task_4.java
 - task_5.java
 - task.java
 - task3.java
- module-info.java

multithread

opps

Servers

stringtype

task

tejal

JRE System Library [JavaSE-21]

src

- tejal
 - aidis.java
 - demo.java
 - task_3.java
 - task.java
 - task2.java
 - task4.java
 - task5.java
- module-info.java

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

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

terminated> task_5 [Java Application] C:\Users\vishta\p2\pool\plugins\org.eclipse.jst.openjdt.core\hotspot\jre\full\win32\x86_64\21.0.7.v20250502-0916\jre\bin\javaw.exe

Writable Smart Insert 17:1:335

Snipping Tool

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eclipse-workspace - tejal/src/tejal/task5.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin_panel... login_custom... login.jsp task_4.java task_5.java task5.java

```
66     int[][] matrix = {  
67         {1, 2, 3},  
68         {4, 5, 6}  
69     };  
70  
71     for (int i = 0; i < matrix.length; i++) {  
72         for (int j = 0; j < matrix[i].length; j++) {  
73             System.out.print(matrix[i][j] + " ");  
74         }  
75         System.out.println();  
76     }  
77  
78     // ----- EXCEPTION HANDLING -----  
79     try {  
80         System.out.println("\nAccessing invalid index:");  
81         System.out.println(arr[100]); // Invalid index  
82     } catch (ArrayIndexOutOfBoundsException e) {  
83         System.out.println("Exception Caught: Array index out of bounds");  
84     }  
85  
86     sc.close();  
87 }  
88 }
```

terminated> task_5 [Java Application] C:\Users\vishal\p2\pool\plugins\org.eclipse.jst\openjdk\hotspot\jre\full\win32\x86_64\21.0.7.v20250502-0916\jre\bin\java

Writable Smart Insert 17:1:385

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eclipse-workspace - tejal/src/tejal/task5.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer X first.jsp menu.jsp contact.jsp admin.jsp admin_panel... login_custom... login.jsp task_4.java task_5.java task5.java

66 int[][] matrix = {

Problems Servers Terminal Data Source Explorer Properties Console X Eclipse IDE for Enterprise Java and Web Developers 2025-12 Release

<terminated> task_5 [Java Application] C:\Users\visha\p2\pool\plugins\org.eclipse.jst\openjdk\hotspot\jre\full\win32\x86_64_21.0.7.v20250502-0916\re\bin\javaw.exe (22-Jan-2026, 7:14:58 pm - 7:15:06 pm elapsed: 0:00:08.196) [pid:16]

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!

Writable Smart Insert 17:1:335