

```
public class ArrayDataAnalysis {  
  
    public static void main(String[] args) {  
  
        int[] numbers = {10, 20, 5, 40, 15};  
  
        int sum = 0;  
        int max = numbers[0];  
        int min = numbers[0];  
  
        for (int i = 0; i < numbers.length; i++) {  
            sum += numbers[i];  
  
            if (numbers[i] > max)  
                max = numbers[i];  
  
            if (numbers[i] < min)  
                min = numbers[i];  
        }  
  
        double average = (double) sum / numbers.length;  
  
        for (int i = 0; i < numbers.length - 1; i++) {  
            for (int j = 0; j < numbers.length - 1 - i; j++) {  
                if (numbers[j] > numbers[j + 1]) {  
                    int temp = numbers[j];  
                    numbers[j] = numbers[j + 1];  
                    numbers[j + 1] = temp;  
                }  
            }  
        }  
    }  
}
```

```
System.out.println("Sum = " + sum);
System.out.println("Average = " + average);
System.out.println("Maximum = " + max);
System.out.println("Minimum = " + min);

System.out.print("Sorted Array: ");
for (int num : numbers) {
    System.out.print(num + " ");
}

System.out.println();

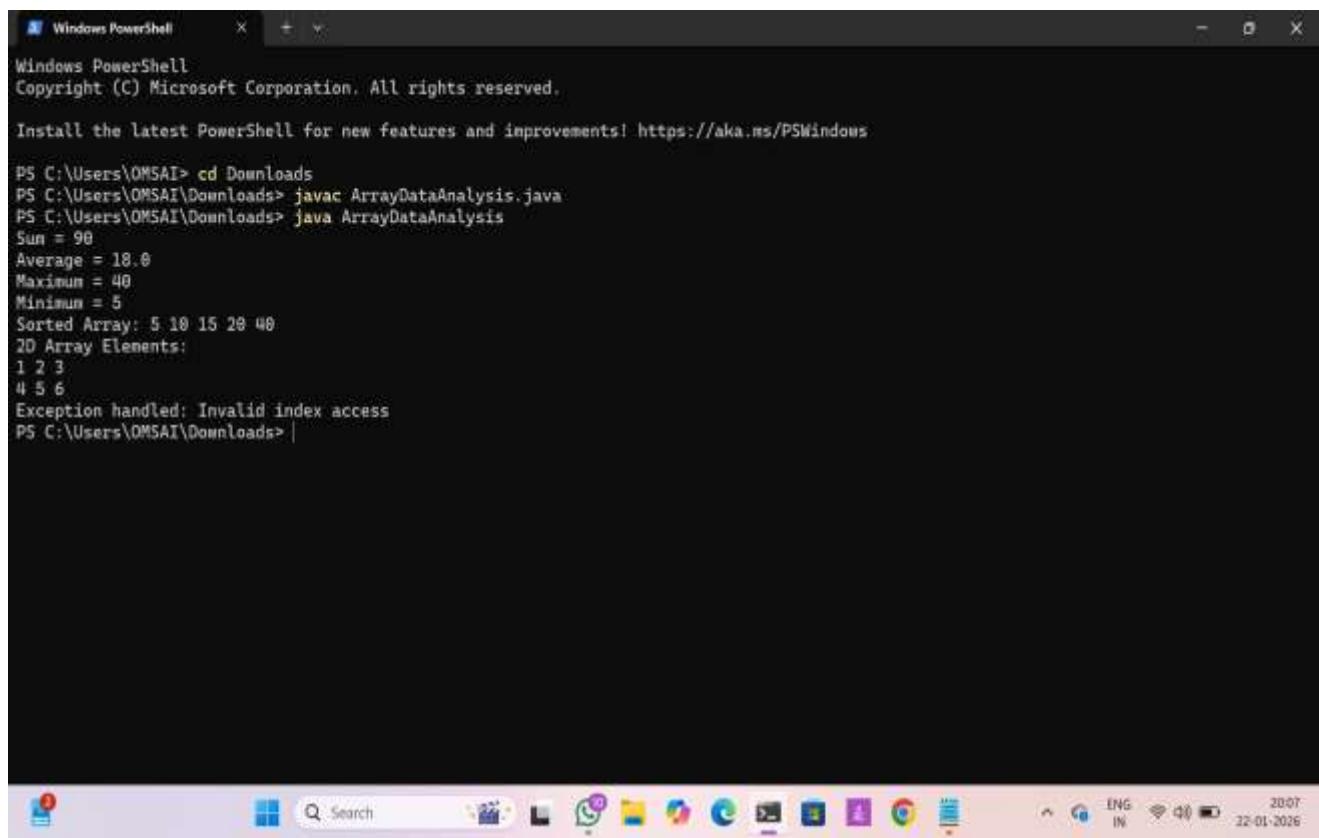
int[][] matrix = {
    {1, 2, 3},
    {4, 5, 6}
};

System.out.println("2D Array Elements:");
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();
}

try {
    System.out.println(numbers[10]); // error
} catch (ArrayIndexOutOfBoundsException e) {
    System.out.println("Exception handled: Invalid index access");
}
```

```
}
```

```
}
```



A screenshot of a Windows PowerShell window titled "Windows PowerShell". The window shows the following command-line session:

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

PS C:\Users\OMSAI> cd Downloads
PS C:\Users\OMSAI\Downloads> javac ArrayDataAnalysis.java
PS C:\Users\OMSAI\Downloads> java ArrayDataAnalysis
Sum = 90
Average = 18.0
Maximum = 40
Minimum = 5
Sorted Array: 5 10 15 20 40
2D Array Elements:
1 2 3
4 5 6
Exception handled: Invalid index access
PS C:\Users\OMSAI\Downloads> |
```

The taskbar at the bottom of the screen shows various pinned icons, including File Explorer, Edge, and File History. The system tray displays the date (22-01-2026), time (20:07), battery status, signal strength, and language settings (ENG IN).