

```
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 + " ");  
}
```

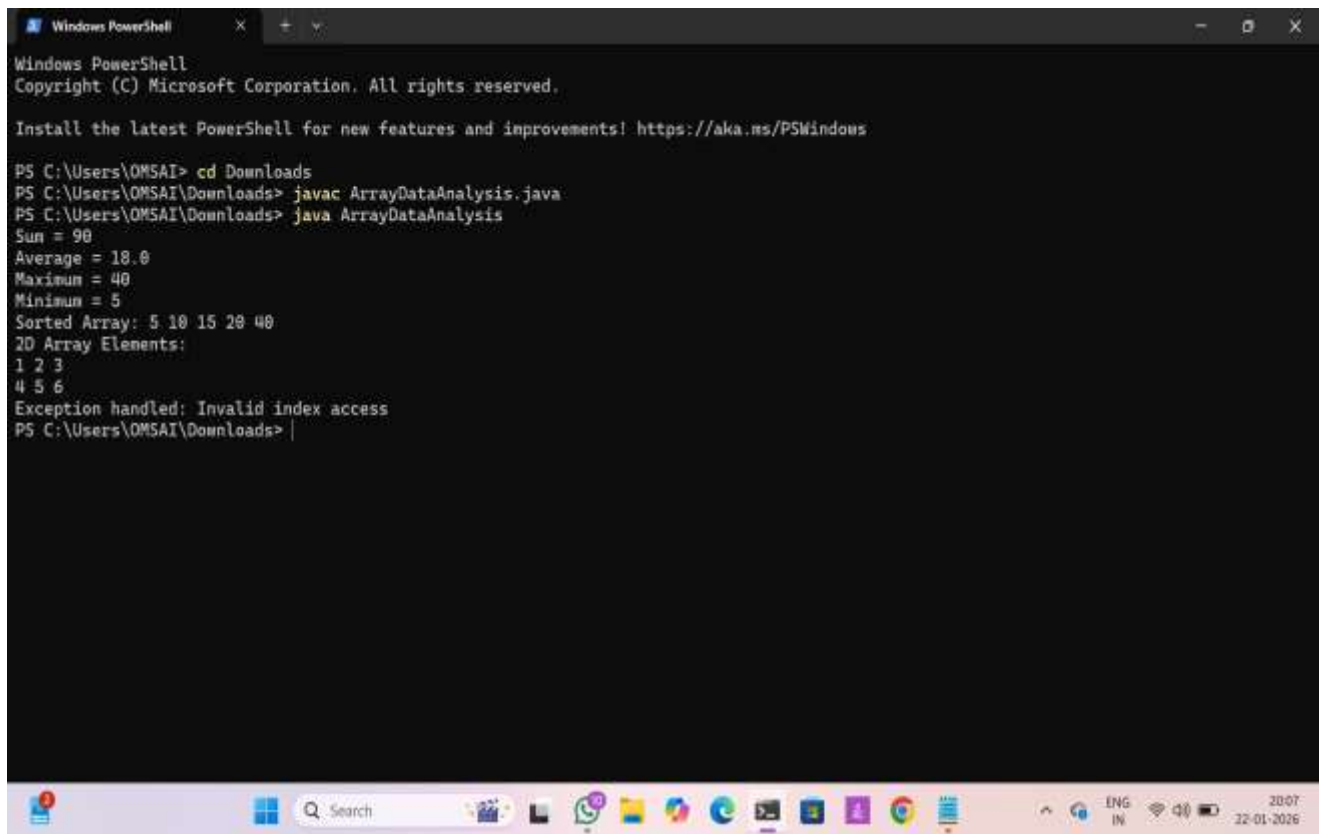
```
System.out.println();
```

```
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");  
}
```

```
}  
  
}
```



The screenshot shows a Windows PowerShell window with the following text:

```
Windows PowerShell  
Copyright (C) Microsoft Corporation. All rights reserved.  
  
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 terminal window has a title bar that says "Windows PowerShell" and standard window controls. The taskbar at the bottom shows various application icons, including the Start button, Search, and several open applications. The system tray on the right shows the date and time as 22-01-2026, 20:07.