

Programming Assignment #1

Write a Java program that:

1. Creates an array of integers with values [5, 2, 8, 1, 9, 3]
2. Finds and prints the maximum value in the array
3. Calculates and prints the average of all values
4. Sorts the array in ascending order and prints the sorted array

Requirements:

- Use only basic Java concepts (no advanced libraries)
- Include proper variable naming
- Add comments to explain your code
- Handle potential errors appropriately