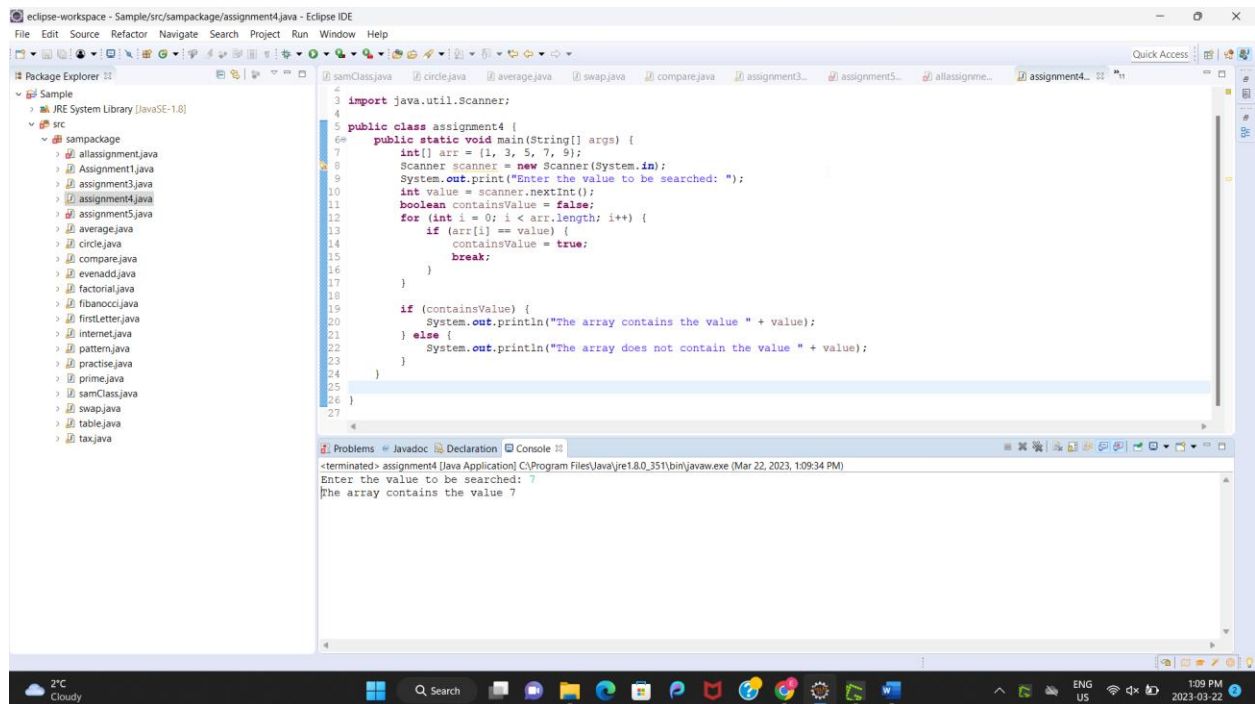


# Assignment 4 | C0873610 | Elwin Paulson

1.



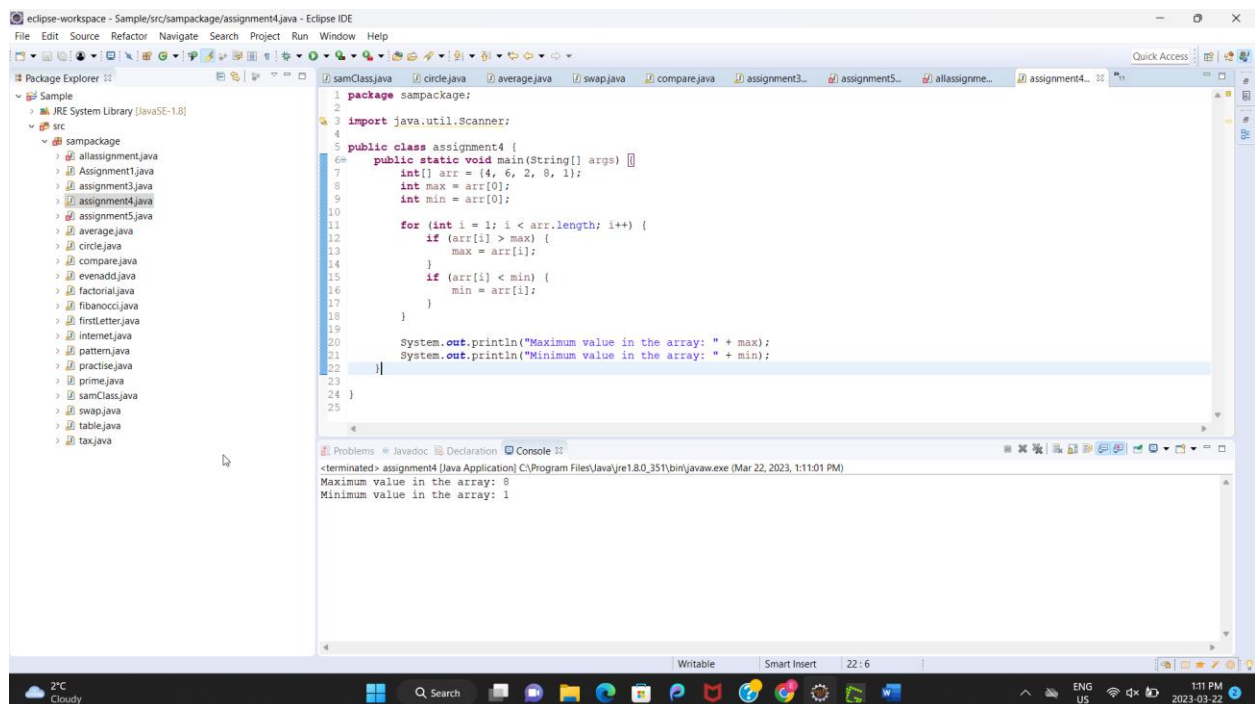
The screenshot shows the Eclipse IDE with the file `assignment4.java` open. The code implements a search algorithm using a `Scanner` to take input from the user and check if it exists in an array. The package explorer on the left shows the project structure with various Java files under the `src` package.

```
import java.util.Scanner;

public class assignment4 {
    public static void main(String[] args) {
        int[] arr = {1, 3, 5, 7, 9};
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter the value to be searched: ");
        int value = scanner.nextInt();
        boolean containsValue = false;
        for (int i = 0; i < arr.length; i++) {
            if (arr[i] == value) {
                containsValue = true;
                break;
            }
        }
        if (containsValue) {
            System.out.println("The array contains the value " + value);
        } else {
            System.out.println("The array does not contain the value " + value);
        }
    }
}
```

The console output shows the program execution: `Enter the value to be searched: 7` and `The array contains the value 7`.

2.



The screenshot shows the Eclipse IDE with the file `assignment4.java` open. The code implements a min-max algorithm that finds the maximum and minimum values in an array. The package explorer on the left shows the project structure with various Java files under the `src` package.

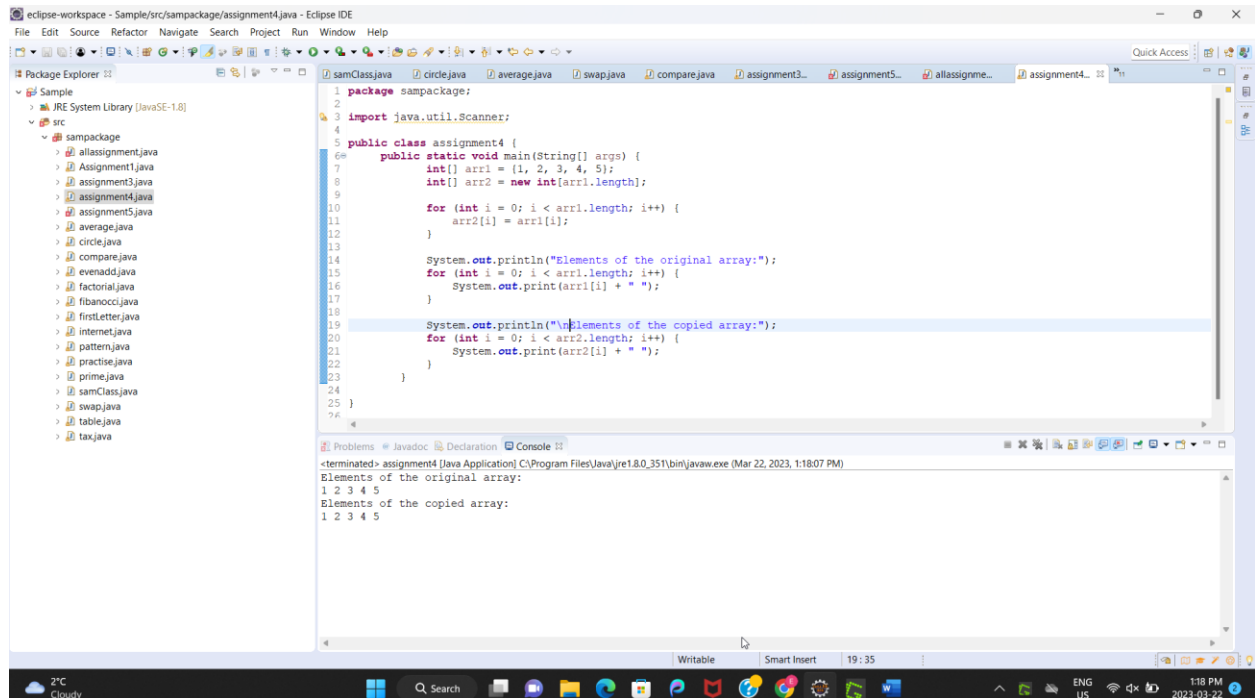
```
package sampackage;

import java.util.Scanner;

public class assignment4 {
    public static void main(String[] args) {
        int[] arr = {4, 6, 2, 8, 1};
        int max = arr[0];
        int min = arr[0];
        for (int i = 1; i < arr.length; i++) {
            if (arr[i] > max) {
                max = arr[i];
            }
            if (arr[i] < min) {
                min = arr[i];
            }
        }
        System.out.println("Maximum value in the array: " + max);
        System.out.println("Minimum value in the array: " + min);
    }
}
```

The console output shows the program execution: `Maximum value in the array: 8` and `Minimum value in the array: 1`.

3.



4.

