

# Java Lab File

## Lab 3:-

**Program 8:** Write and implement java program to in-built methods and user-defined methods.

### Code:-

```
import java.util.Arrays;
public class MethodExample {

    // User-defined method to find the maximum value in an array
    public static int findMax(int[] arr) {
        int max = Integer.MIN_VALUE;
        for (int num : arr) {
            if (num > max) {
                max = num;
            }
        }
        return max;
    }

    public static void main(String[] args) {
        // Using in-built methods
        int[] numbers = {5, 2, 9, 1, 7};
        Arrays.sort(numbers); // Using in-built sort method
        System.out.println("Sorted numbers: " +
        Arrays.toString(numbers));

        // Using the user-defined method
        int maximum = findMax(numbers);
        System.out.println("Maximum number: " + maximum);
    }
}
```

### Output

