Create a simple generics class with type parameters for sorting values of different types.

CODE:

import java.util.\*;

class GenericSort<T extends Comparable<T>> {

private List<T> values;

public GenericSort() {

values = new ArrayList<>();

}

public void addValue(T value) {

values.add(value);

}

public void sortValues() {

Collections.sort(values);

}

public List<T> getValues() {

return values;

}

}

public class SortingValues {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Creating a GenericSort object for integers

GenericSort<Integer> intSort = new GenericSort<>();

System.out.print("Enter the number of integers: ");

int n = scanner.nextInt();

System.out.println("Enter " + n + " integers:");

for (int i = 0; i < n; i++) {

intSort.addValue(scanner.nextInt());

}

intSort.sortValues();

System.out.println("Sorted integers: " + intSort.getValues());

// Creating a GenericSort object for strings

GenericSort<String> stringSort = new GenericSort<>();

System.out.print("Enter the number of strings: ");

n = scanner.nextInt();

System.out.println("Enter " + n + " strings:");

scanner.nextLine(); // Consume newline character

for (int i = 0; i < n; i++) {

stringSort.addValue(scanner.nextLine());

}

stringSort.sortValues();

System.out.println("Sorted strings: " + stringSort.getValues());

scanner.close(); // Closing the scanner object

}

}

OUTPUT:

C:\javap>javac SortingValues.java

C:\javap>java SortingValues

Enter the number of integers: 8

Enter 8 integers:

4 7 8 6 7 9 1 0

Sorted integers: [0, 1, 4, 6, 7, 7, 8, 9]

Enter the number of strings: 5

Enter 5 strings:

AASHRITA

KALYAN

ASHA

SUDHAKAR

PRITHVI

Sorted strings: [AASHRITA, ASHA, KALYAN, PRITHVI, SUDHAKAR]

