Generic Function :

import java.util.Scanner;

public class GenericMaximum {

public static <T extends Comparable<T>> T findMax(T[] array) {

T max = array[0];

for (T element : array) {

if (element.compareTo(max) > 0) {

max = element;

}

}

return max;

}

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print(“Enter number of students (for CGPA): “);

int n1 = sc.nextInt();

Float[] cgpa = new float[n1];

System.out.println(“Enter CGPA values:”);

for (int I = 0; I < n1; i++) {

cgpa[i] = sc.nextFloat();

}

System.out.println(“Highest CGPA: “ + findMax(cgpa));

System.out.print(“\nEnter number of students (for Total Marks): “);

int n2 = sc.nextInt();

integer[] total = Total

integer[n2];

System.out.println(“Enter Total Marks:”);

for (int I = 0; I < n2; i++) {

total[i] = sc.nextInt();

}

System.out.println(“Highest Total Marks: “ + findMax(total));

System.out.print(“\nEnter number of students (for Names): “);

int n3 = sc.nextInt();

sc.nextLine();

String[] names = new String[n3];

System.out.println(“Enter student names:”);

for (int I = 0; I < n3; i++) {

names[i] = sc.nextLine();

}

System.out.println(“Student whose name comes last alphabetically: “ + findMax(names));

sc.close();

}

}

Output :

Enter number of students (for CGPA): 3

Enter CGPA values:

9.4

8.9

9.7

Highest CGPA: 9.7

Enter number of students (for Total Marks): 3

Enter Total Marks:

520

460

550

Highest Total Marks: 550

Enter number of students (for Names): 3

Enter student names:

Mukesh

Surya

Balaji

Student whose name comes last alphabetically: Surya