LAB#7

Generics in Java

OBJECTIVE:

Implementing generic classes and methods for ensuring compile time type safety of data.

Lab Task:

Write a program that takes integer array, double array and float array. Make a generic function that prints these arrays in reverse order.

CODE:

```
1 package TASK_1;
 3 public class Main {
 5⊜
        public static <E> void printArray(E[] inputarray) {
            for (int i = inputarray.length - 1; i >= 0; i--)
   System.out.print(inputarray[i] + " ");
 6
8
10⊝
         public static void main(String args[]) {
11
12
             Integer[] intArray = { 1, 2, 3, 4, 5 };
13
14
             Double[] doubleArray = { 1.1, 2.2, 3.3, 4.4 };
15
             Character[] charArray = { 'H', 'E', 'L', 'L', '0' };
16
17
             System.out.println("Array integerArray contains:");
18
19
20
             printArray(intArray);
21
             System.out.println("\nArray doubleArray contains:");
22
23
24
             printArray(doubleArray);
25
             System.out.println("\nArray characterArray contains:");
26
27
28
             printArray(charArray);
29
         }
```

OUTPUT:

```
Array integerArray contains:
5 4 3 2 1
Array doubleArray contains:
4.4 3.3 2.2 1.1
Array characterArray contains:
0 L L E H
```