LAB # 07

Objective:

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

LAB TASK:

```
public class Generic {
public static <E> void printArray ( E[] inputArray) {
     for(E element : inputArray) {
         System.out.printf("%s", element);
     System.out.println();
     public static void main(String[] args) {
         // TODO Auto-generated method stub
 Integer[] intArray = { 1 , 2 , 3 , 4 , 5 };
 Double[] doubleArray = { 1.1 , 2.2 , 3.3 , 4.4 , 5.5};
 Character[] characterArray = { 'B', 'U', 'S', 'H', 'R', 'A'};
 System.out.println("Array integerArray contains:");
 printArray(intArray);
 for(int i=intArray.length-1;i>=0;i--)
     System.out.println(intArray[i] + " \n");
 System.out.println("\nArray doubleArray contains:");
 printArray(doubleArray);
 for(int i=doubleArray.length-1;i>=0;i--)
     System.out.println(doubleArray[i] + " \n");
 System.out.println("\nArray characterArray contains:");
 printArray(characterArray);
 for(int i=characterArray.length-1;i>=0;i--)
     System.out.println(characterArray[i] + " \n");
 }
```

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OUTPUT:

```
<terminated> Generic [Java Application] C:\Program Files\Java\jdk-14.0.2\bin\javaw
Array integerArray contains:
12345
4
3
2
1
Array doubleArray contains: 1.12.23.34.45.5
5.5
4.4
3.3
2.2
1.1
Array characterArray contains: BUSHRA
Α
R
Н
s
U
В
```