## **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 character array. Make a generic function that prints these array in reverse order.

```
public class reverseOrder {
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) {
    Integer[] intArray= {1,2,3,4,5,6};
    Double[] doubleArray = {1.1,1.2,1.3,1.4,1.5,1.6};
    Character[] charArray = {'H', 'E', 'L', 'L', '0'};
System.out.println("Original Array:");
printArray(intArray);
System.out.println("intArray in reverse order");
for(int i= intArray.length-1;i>=0;i--)
    System.out.print(intArray[i] + "\t");
System.out.println("\nOriginal Array:");
printArray(doubleArray);
System.out.println("doubleArray in reverse order");
for(int i= doubleArray.length-1;i>=0;i--)
    System.out.print(doubleArray[i] + "\t");
System.out.println("\nOriginal Array:");
printArray(charArray);
System.out.println("intArray in reverse order");
for(int i= charArray.length-1;i>=0;i--)
    System.out.print(charArray[i] + "\t");
```

## **OUTPUT:**