

<b>Ex.No: 09</b>	<b>Maximum of N Elements using Generic Function</b>
<b>Date:19.09.19</b>	

### **Aim:**

To develop a java console application to perform maximum of n elements using generic function.

### **Requirement:**

Write a java program to find the maximum value from the given type of elements using a generic function.

### **Algorithm:**

**Step 1:** Create a package genericfunctions.

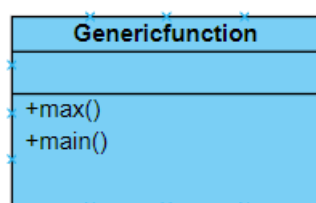
**Step 2:** Declare class GenericClass with main function.

**Step 3:** Create a generic method to find the maximum value out of the element list.

**Step 4:** Display the maximum value from given type of element array.

**Step 5:** Stop

### **Class Diagram:**



## Program:

### GenericFunction.java

```
/*
 * Program to perform Generic Function
 * By Faizul
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 */

package GenericFunction;

public class Genericfunction {

    public static <T extends Comparable<T>> T max (T[] element)
    {
        T m;
        m=element[0];

        for(T e:element)
        {
            if(e.compareTo(m)>0)
                m=e;
        }

        return m;
    }

    public static void main(String[] args) {

        Integer[] intArray= {1,2,3,4,5};
        Integer intMax;
        Double[] doubleArray= {1.1,2.2,3.3,4.4};
        Double doubleMax;
        String[] strArray= {"akhshy","abhijith","faizul","sanjai"};
        String strMax;
        intMax=max(intArray);
        System.out.println("Max integer: "+intMax);
        doubleMax=max(doubleArray);
        System.out.println("Max double: "+doubleMax);
        strMax=max(strArray);
        System.out.println("Max string: "+strMax);

    }
}
```

**Output:**

Max integer: 5

Max double: 4.4

Max string: sanjai

**Result:**

Thus the java console application to perform generic function is verified its output.