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| **EX: 09** | **MAXIMUM OF N ELEMENTS USING**  **GENERIC FUNCTIONS** |
| **19-09-19** |

**Aim:**

To develop a java application 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:**

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**Program:**

…………………………………….GenericClass…………………………………

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\*/

package genericfucntions;

public class GenericClass {

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=

{"apple","orange","banana","welcome"};

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: Welcome

**Result:**

Thus a java console application that finds the maximum value from

given type of elements is verified.