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

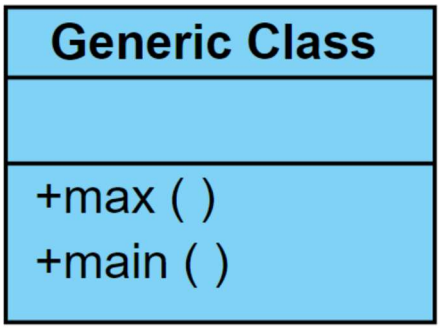
Aim:

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:



Program:

…….GenericClass……

```
/*developed by: Kaarthikeyan.G

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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.