

EX.NO: 09	GENERIC MAXIMUM
DATE:20-9-19	

AIM: To develop a java program for the maximum value from the given type of element using a generic function.

REQUIREMENT: To find the maximum value from the given type of element using Generic function.

ALGORITHM:

STEP 1: Create a package called as maximum.

STEP 2: Create a class GenericMaximum.

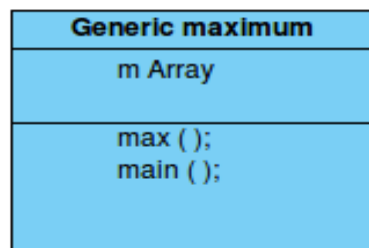
STEP 3: Declare a method with initial attributes.

STEP 4: Apply a suitable condition loop to it.

STEP 5: Declare a object in it.

STEP 6: Print the result.

CLASS DIAGRAM:



PROGRAM:

```

/*
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 */
package maximum;

public class GenericMaximum {

    public static <E extends Comparable<E>> E Max(E[] ele)
    {
        E m;
        m=ele[0];
        for(E e:ele)
        {
            if(e.compareTo(m)>0) {

```

```

        m=e;
    }
}

return m;

}

public static void main(String[] args) {
    Integer[] intArray = { 6,4,8,9};
    Integer intMax;
    Double[] doubleArray = {1.1,6.4,8.9,3.0};
    Double doubleMax;
    String[] stringArray = {"moni","tamil","harini"};
    String strMax;
    intMax=GenericMaximum.Max(intArray);
    System.out.println("Integer Max="+intMax);
    strMax=GenericMaximum.Max(stringArray);
    System.out.println("String Max="+strMax);
    doubleMax=GenericMaximum.Max(doubleArray);
    System.out.println("Double Max="+doubleMax);

}

}

```

OUTPUT:

```

Integer Max=9
String Max=tamil
Double Max=8.9

```

RESULT: Thus the java console application to find the maximum value of the given data type is developed.