

EX.NO: 09

DATE:20/09/19

GENERIC MAXIMUM

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.

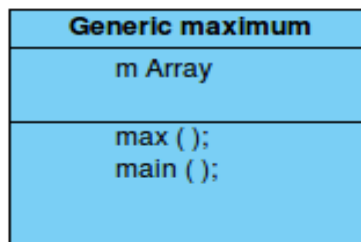
STEP 3: Declare a method with initial attributes.

STEP 4: Apply a suitable condition loop to it.

STEP 5: Declare a object in it.

STEP 6: Print the result.

CLASS DIAGRAM:



PROGRAM:

```
/*
 * developed by M.upendra
 * EEE-B
 * 212217105032
 *
 */
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 = {"neha","gowri","hari","rushhi"};
        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=rushhi
Double Max=8.9

```

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