EX.NO: 09	MAXIMUM OF N ELEMENTS USING GENERIC FUNCTION
DATE:21.9.19	

AIM:

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

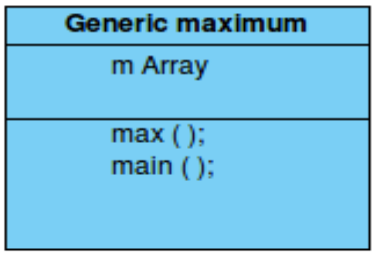
REQUIREMENT:

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:

```
/*
 * created by:
 * aharish.m
 *
 */
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[]= {5,10,7,1};
        Integer intMax;
        Double doublearray[]= {6.5,5.2,3.8,4.3};
        Double doubleMax;
        String Stringarray[]= {"aharish","vijay","ajith","johncena"};
        String stringMax;
        intMax=max(intarray);
        System.out.println("max integer:"+intMax);
        doubleMax=max(doublearray);
        System.out.println("max double:"+doubleMax);
   stringMax=max(Stringarray);
   System.out.println("max string:"+stringMax);

}
}
```

OUTPUT:

```
max integer:10
max double:6.5
max string:vijay
```

RESULT:

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