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

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.
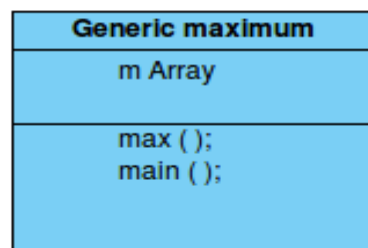STEP 2: Create a class GenericMaximum.
STEP 3: Declare a method with initial attributes.
STEP 4: Apply a suitable condition loop to it.
STEP 5: Declare a object in it.
STEP 6: Print the result.

CLASS DIAGRAM:

PROGRAM:
```
/*
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 *
 *
 */
package maximum;

public class GenericMaximum {
    public static <E extends Comparable<E>> E max (E[] element)
    { E m;
     m=element[0];
     for(E e:element)
     {
        if(e.compareTo(m)>0)
           m=e;
```

```java
      }

    return m;
  }

  public static void main(String[] args) {
     Integer[] intArray= {10,7,4,3};
     Integer intMax;
     Double[] doubleArray= {5.3,2.7,3.4,4.8};
     Double doubleMax;
     String[] strArray= {"plumbum","rectifier","diode","germanium"};
     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: 10
Max double: 5.3
Max string: rectifier

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