

EX.NO: 09	MAXIMUM VALUE FROM THE GIVEN TYPE OF ELEMENT USING A GENERIC FUNCTION
DATE:21-09-19	

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.

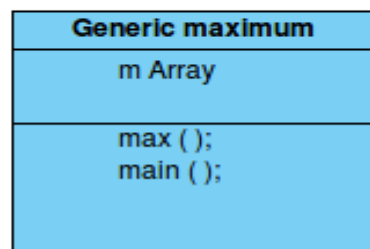
STEP 3: Declare a method with initial attributes.

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[] element)
    { E m;
      m=element[0];
      for(E e:element)
      {
          if(e.compareTo(m)>0)
              m=e;
      }
    }
  }

```

```
    }

    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= {"zero","ball","car","gun"};
    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: zero

RESULT:

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