EX: 09

19-09-19

MAXIMUM OF N ELEMENTS USING GENERIC FUNCTIONS

Aim:

To develop a java application to find the maximum value from the given type of elements using a generic function.

Algorithm:

- Step 1: Create a package generic functions.
- Step 2: Declare class GenericClass with main function.
- Step 3: Create a generic method to find the maximum value out of the element list.
- Step 4: Display the maximum value from given type of element array.
- Step 5: Stop

Class Diagram:

+max () +main ()

Program:

GenericClass.java

```
Integer[] intArray= {1,2,3,4,5};
    Integer intMax;
    Double[] doubleArray= {1.1,2.2,3.3,4.4};
    Double doubleMax;
    String[] strArray=
{"apple", "orange", "banana", "welcome"};
    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: 5
Max double: 4.4
Max String: Welcome

Result:

Thus a java console application that finds the maximum value from given type of elements is verified.