Ex.No: 10	**Java Application for Generic Max Finder**
Date:	

Aim:

To create a Java console application that finds the maximum in a array based on the type of the elements using generic functions in java.

Algorithm:

Step 1 Start the Process

Step 2 Create a array of number and array of strings and pass it to generic function.

Step 3 If the array is Integer type

- Step 3.1 Assume first element as MAX
- Step 3.2 Compare [Numeric Perspetive] this element with MAX
- Step 3.3 If it is greater than MAX then store current element as MAX
- Step 3.4 Else do nothing
- Step 3.5 Goto step 3.1 until all the elements has been processed.

Step 4 If the array is String type

- Step 4.1 Assume first element as MAX
- Step 4.2 Compare [Dictionary Perspective] this element with MAX
- Step 4.3 If it is greater than MAX then store current element as MAX
- Step 4.4 Else do nothing
- Step 4.5 Goto step 3.1 until all the elements has been processed.

Step 5 Stop the Process

Coding:

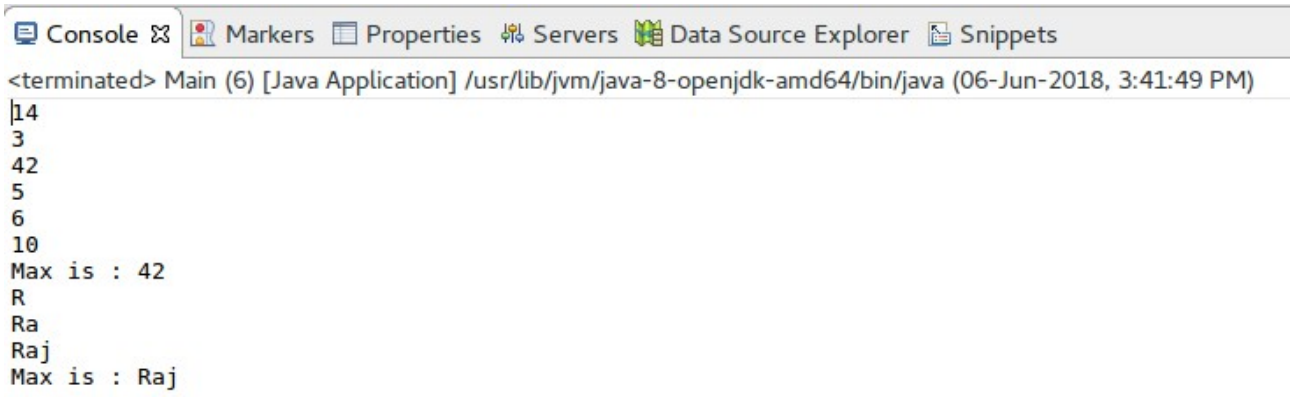
```
class GenericMax {
	public <T extends Comparable<T>> void maxFinder (T[] array){
		T max = array[0];
		for(T element: array){
			System.out.println(element);
			if(element.compareTo(max) > 0)
				max = element;
		}
		System.out.println("Max is : "+max);
	}
}

public class Main {

	public static void main(String[] args) {
		GenericMax max = new GenericMax();
		Integer[] numbers = {14,3,42,5,6,10};
		String[] strings = {"R","Ra","Raj"};
		max.maxFinder(numbers);
		max.maxFinder(strings);
	}

}
```

Output:



Result:

The java console application for finding generic max of given elements was developed and tested successfully.