# Lab Work 2-14-3

| **Item** | **Description** |
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| Goal | Getting a practical experience in   * Using Generics. |
| Task | Open project called TestGenerics2 (from 2-14-2 lab).  Rewrite a class MyTestMethod to add new static method “calcSum” (with two parameters: an array T[] and variable maxval of type T) that calc sum of the number of elements in an array T[] that are greater than a specified value maxval.  Add to method main() code that creates two array, first – array of Integer type and second – array of Double type. Fill these arrays with some random values.  Add code to counts the total sum of elements in each of arrays that are greater than a specified element by invoking calcSum static method.  Execute the program.  The program output must be like next example:  Array values: [1,2,3,4,5,6,7,8,9]  Sum of elements that are greater than 3:  39  Array values: [1.1,2.2,3.3,4.4,5.5,6.6,7.7,8.8,9.9]  Sum of elements that are greater than 3:  46.2 |
| Preparation | No special preparation |
| Execution\ methodology | Remind that student should apply his or her knowledge of:   * how to create generic method;   Execute following steps:   * Create class with generic method * In method main() provide all necessary code to test generic method |
| Evaluation | * no special evaluation; |
| Closure | Issues discussion, on demand |
| Reporting | No special reporting |