

## LABORATORY 8 – LAB ACTIVITY

Implement the following:

- a. A class template *Comparator*, which has a **pure virtual function**, *compare*, that receives two generic elements; the function return type is **bool**.
- b. Two concrete classes which inherit from *Comparator* and implement the *compare* function, in different ways (e.g. *ComparatorAscendingByTitle*, *ComparatorDescendingByAge*, etc...)
- c. Implement a generic sort function, which receives an STL vector/DynamicVector and a *Comparator* (**pointer or reference**, for polymorphism) and sorts the elements in the vector, according to the *compare* function in the *Comparator*.
- d. Test the function.
- e. Make sure you have no memory leaks.