

Project 10 MyString Class

Purpose: The purpose for this project is to reinforce the knowledge from Chapter 10 of the textbook. The students will learn how to write a user defined class.

Project Objectives:

1. Apply UML design on user defined class
2. Write overloaded constructors of a class
3. Write customer methods of the class (Other than get and set methods)

Problem description:

The String class is provided by java library. Write your own String class based on the following UML diagram. No built-in String, StringBuffer related classes are allowed.

MyString
-data: char[]
+MyString(chars: char[]) +charAt(i: int) : char +length() : int +substring(begin: int, end: int) : MyString +toLowerCase() : MyString +equals(other: MyString) : Boolean <u>+valueOf(i: int) : MyString</u>

All methods have the same functionality as the corresponding methods in String class. You shall provide a main function to test all methods in MyString class.

Due date will be announced on Blackboard.