**CIS 181 - Lab 2**

**Using Pre/Post Conditions**

## Description

Write a small program that allows a user to change password using the Console class. As in example in the text, assume that there is a method validateLogin already created that validates the login, but simply returns true. Also assume there is a method reset Password that would reset the password in the system, but for now, simply returns true.

Your program should require a new password to have at least six characters with at least one character that is not a letter (upper case or lower case). Also, be sure to prompt the user for the password twice and make sure the responses match. if they don't match, the user should start the process of entering a new password again. This reduces the possibility that the user mistypes the new password. Remember, you may need to run this program from a command window.

Note that a console will return null in Eclipse IDE. You need to run your code in console. You can open you command prompt and type “java ChangePassword.java” to run and test your code.

## Pre-Lab

1. Review the material on pre/post conditions presented in class and described in the textbook.
2. Read through the lab description above.
3. Design test cases that will be used to test your program. For example, you can create a test case “123” as a password and it doesn’t meet requirements of the lab description.

**Goals**

* Write methods according to preconditions and postcondtions.
* Implement a simple *ChangePassword* class with the specified methods.
* Prepare and use test cases for your implementation.

## Tasks

1. Download the Source Code ChangePassword.java. Prepare an Eclipse project for you work.
2. Write a Java implementation of fill out do-while loop in the give java file according to its precondtion and postcondtion. You can start your coding below the comment “// In the following section, please fill out code to meet requirements of the lab description”
3. Use the following test cases to test your code. Indicate the following test cases passed or not. Write down your testing results into a word file and submit.

Testcase 1: Password: 123; Verify Password: 1234 -> Failed

Testcase 2: Password: 123456a; Verify Password: 123456a -> Passed

Testcase 3: Password: 789016; Verify Password: 789016 -> Failed

Testcase 4: Password: abcdef; Verify Password: abcdef -> Failed

Testcase 5: Password: 123456A; Verify Password: 123456A -> Passed

Testcase 6: Password: 789016; Verify Password: 789017 -> Failed

1. Submit the modified source file, ChangePassword.java, and testing results word file to the myCourses!