CMSC204 – Prof. Gary Thai

Project 1 – PasswordCheckerUtility

**Lessons Learned**

In this project I was trying to debug my code for long time. In the test PasswordCheckerTestPublic in the part testGetInvalidPasswords is always goes wrong. In the beginning it should be 2, but my test result is 0. I have to look that part again and again to found what is the problem. However, I fix that one, the next come out, because I type something wrong with it. Only that problem had took my one and half hours. Thankfully, the other two test I had successfully past them.

**Pseudocode**

|  |
| --- |
| Class PasswordCheckerUtility |
| + [PasswordCheckerUtility](file:///D:\Documents\CMSC204\1A-Release\PasswordCheckerUtility.html#PasswordCheckerUtility--)() |

|  |
| --- |
| * static void [comparePasswords](file:///D:\Documents\CMSC204\1A-Release\PasswordCheckerUtility.html#comparePasswords-java.lang.String-java.lang.String-)(java.lang.String password, java.lang.String passwordConfirm) * static Boolean [comparePasswordsWithReturn](file:///D:\Documents\CMSC204\1A-Release\PasswordCheckerUtility.html#comparePasswordsWithReturn-java.lang.String-java.lang.String-)(java.lang.String password, java.lang.String passwordConfirm) * static java.util.ArrayList<java.lang.String> [getInvalidPasswords](file:///D:\Documents\CMSC204\1A-Release\PasswordCheckerUtility.html#getInvalidPasswords-java.util.ArrayList-)(java.util.ArrayList<java.lang.String> passwords) * static Boolean [hasBetweenSixAndNineChars](file:///D:\Documents\CMSC204\1A-Release\PasswordCheckerUtility.html#hasBetweenSixAndNineChars-java.lang.String-)(java.lang.String password) * static boolean [hasDigit](file:///D:\Documents\CMSC204\1A-Release\PasswordCheckerUtility.html#hasDigit-java.lang.String-)(java.lang.String password) * static Boolean [hasLowerAlpha](file:///D:\Documents\CMSC204\1A-Release\PasswordCheckerUtility.html#hasLowerAlpha-java.lang.String-)(java.lang.String password) * static Boolean [hasSameCharInSequence](file:///D:\Documents\CMSC204\1A-Release\PasswordCheckerUtility.html#hasSameCharInSequence-java.lang.String-)(java.lang.String password) * static Boolean [hasSpecialChar](file:///D:\Documents\CMSC204\1A-Release\PasswordCheckerUtility.html#hasSpecialChar-java.lang.String-)(java.lang.String password) * static Boolean [hasUpperAlpha](file:///D:\Documents\CMSC204\1A-Release\PasswordCheckerUtility.html#hasUpperAlpha-java.lang.String-)(java.lang.String password) * static Boolean [isValidLength](file:///D:\Documents\CMSC204\1A-Release\PasswordCheckerUtility.html#isValidLength-java.lang.String-)(java.lang.String password) * static Boolean [isValidPassword](file:///D:\Documents\CMSC204\1A-Release\PasswordCheckerUtility.html#isValidPassword-java.lang.String-)(java.lang.String password) * static Boolean [isWeakPassword](file:///D:\Documents\CMSC204\1A-Release\PasswordCheckerUtility.html#isWeakPassword-java.lang.String-)(java.lang.String password) |

**Test Plan**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test # | Input | Expected Output | Actual Output | Pass? |
| 1 | Entry: Pa55word1 Re-entry: Pa55word1 | Valid password window | Valid password window | Y |
| 2 | Entry: Aa!1 Re-entry: Aa!1 | Fail: the password must be at least 6 characters long | Fail: the password must be at least 6 characters long | Y |
| 3 | Entry: SuperSecureExtraLongPassword Re-entry: SuperSecureExtraLongPassword | Fail: no digit | Fail: no digit | Y |
| 4 | Entry: password1! Re-entry: password1! | Fail: no uppercase letter | Fail: no uppercase letter | Y |
| 5 | Entry: 601696358 Re-entry: 992334530 | Fail: the passwords do not match | Fail: the passwords do not match | Y |
| 6 | Entry: Pa555word1  Re-entry: Pa555word1 | Fail: too many characters in sequence | Fail: too many characters in sequence | Y |
| 7 | Entry: 4616  Re-entry: 4616 | Fail: the password must be at least 6 characters long | Fail: the password must be at least 6 characters long | Y |
| 8 | Entry: (blank)  Re-entry: (blank) | Fail: the password must be at least 6 characters long | Fail: the password must be at least 6 characters long | Y |
| 9 | Entry: 601696358  Re-entry:601696358 | Fail: the password must contain at least one uppercase alphabetic | Fail: the password must contain at least one uppercase alphabetic | Y |
| 10 | Read File: passwordTest.txt | Pop up window with invalid passwords and their Exceptions. Valid password is not included | Pop up window with invalid passwords and their Exceptions. Valid password is not included | Y |

