|  |  |
| --- | --- |
| LengthException |  |
|  |  |
| + LengthException()  + LengthException(message : String) |  |



|  |  |
| --- | --- |
| NoUpperAlphaException |  |
|  |  |
| + NoUpperAlphaException()  + NoUpperAlphaException(message : String) |  |



|  |  |
| --- | --- |
| NoLowerAlphaException |  |
|  |  |
| + NoLowerAlphaException()  + NoLowerAlphaException(message : String) |  |



|  |  |
| --- | --- |
| NoDigitException |  |
|  |  |
| + NoDigitException()  + NoDigitException(message : String) |  |



|  |  |
| --- | --- |
| InvalidSequenceException |  |
|  |  |
| + InvalidSequenceException()  + InvalidSequenceException(message : String) |  |



|  |  |
| --- | --- |
| RuntimeException |  |
|  |  |
|  |  |



|  |  |
| --- | --- |
| PasswordCheckerUtility |  |
|  |  |
| + PasswordCheckerUtility()  + *isValidPassword*(pwdString : String) : Boolean  + *isWeakPassword*(pwdString : String) : Boolean  + *validPasswords*(passwords : ArrayList<String>) : ArrayList<String> | |  | | --- | | Default constructor. | | Returns true for valid passwords. Throws exceptions for invalid passwords. Valid if password is greater than or equal to six characters, has at least one uppercase alphabetic character, has at least one lowercase alphabetic character, and has no more than two of the same character in a sequence. | | Returns true for password lengths greater than or equal to six but less than or equal to nine. | | Returns an ArrayList of invalid passwords (weak passwords are not considered invalid). | |



|  |  |
| --- | --- |
| PasswordDriverFX |  |
|  |  |
|  |  |



|  |  |
| --- | --- |
| PasswordMain |  |
|  |  |
|  |  |



|  |  |
| --- | --- |
| UnmatchedException |  |
|  |  |
| + UnmatchedException()  + UnmatchedException(message : String) |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case # | Input | Actual Input | Expected Output | Actual Output | Did the test pass? |
| 1 | 12345 | 12345 | The password must be at least 6 characters long. | The password must be at least 6 characters long. | Yes. |
| 2 | 123456 | 123456 | The password must contain at least one uppercase alphabetic character. | The password must contain at least one uppercase alphabetic character. | Yes. |
| 3 | 12345A | 12345A | The password must contain at least one lowercase alphabetic character. | The password must contain at least one lowercase alphabetic character. | Yes. |
| 4 | Abcdef | Abcdef | The password must contain at least one digit. | The password must contain at least one digit. | Yes. |
| 5 | 1Abbbc | 1Abbbc | The password cannot contain more than two of the same character in sequence. | The password cannot contain more than two of the same character in sequence. | Yes. |
| 6 | 1Abcde | 1Abcde | Password is OK but weak | Password is OK but weak | Yes. |
| 7 | 1Abbcdefgh | 1Abbcdefgh | Password is valid | Password is valid | Yes. |
| 8 | 1Abbcdefgh  1Abbcdefg | 1Abbcdefgh  1Abbcdefg | The passwords do not match | The passwords do not match. | Yes. |