**Montgomery College**

**CMSC 204**

**Assignment 1 Design**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Case #** | **Input** | **Actual Input** | **Expected Output** | **Actual Output** | **Did the test pass?** |
| 1 | a1Ab1Bc1Cd1D# | a1Ab1Bc1Cd1D# | Password is valid | Password is valid | Yes |
| 2 | bertha22 | bertha22 | The password must contain at least one uppercase alphabetic character | The password must contain at least one uppercase alphabetic character | Yes |
| 3 | 4Sal# | 4Sal# | Password must be greater than 6 characters long | Password must be greater than 6 characters long | Yes |

**Pseudocode**

**isValidPassword:**

if the password is:

1. At least 6 characters long
2. 10 or more characters
3. At least 1 numeric character
4. At least 1 uppercase alphabetic character
5. At least 1 lowercase alphabetic character
6. At least 1 special character
7. No more than 1 of the same character in a sequence
   1. Hello@123 – okay
   2. Aaabb@123 – okay

Password is valid

**isWeakPassword:**

if the password is:

1. If the password is between 6 and 9 letters

Password is okay but weak

**invalidPassword:**

if the password is:

1. Less than 6 characters long
2. No numeric characters
3. No uppercase alphabetic characters
4. No lowercase alphabetic characters
5. No special characters
6. More than 1 of the same characters in a sequence
   1. AAAbb@123 – not okay

Password is invalid