

This homework will give you practice using Strings and String methods, loops, conditional statements, boolean variables, and logical operators.

Write a complete Java program to first prompt the user for their password (this is arbitrary; you can just make it up!).

**Please enter password: Hello1234!**

After the user inputs their password, immediately check if the password is valid based on the criteria below:

1. The password length should be between 8 to 15 characters.
2. The password should not contain any spaces.
3. The password should contain at least one digit (0-9).
4. The password should contain at least one lowercase letter (a-z).
5. The password should contain at least one uppercase letter (A-Z).
6. The password should contain at least one special character ( @, #, %, &, !, \$ ).

If the password does not meet one or more of the criteria, you must print out a message stating that the password is invalid with a specific explanation. Example:

**Password Invalid --- Password Length NOT Between 8 to 15 Characters.**

Your program must allow the user to try a different password if the first attempt is invalid. The user can attempt to enter a valid password up to 3 times. If the user fails to provide a valid password after 3 attempts, print:

**ERROR Too Many Attempts --- Account is Locked.**

If the password is valid, then prompt the user to reconfirm their password:

**Please re-enter password to confirm: Hello1234!**

If the reconfirmed password does not match the original entry, you must print out a message stating that the password is invalid as the passwords do not match:

**Password Invalid --- Passwords DO NOT Match.**

Once both passwords match and all the criteria are met, you must print out a message stating that the password has been accepted:

**Password Accepted --- WELCOME!**