**Unit 6 Assignment**

**Directions:**

Please complete the following assignment to signify your completion of Unit 6. All programming projects need to be completed and submitted electronically, following the Electronic Submission Guidelines discussed in class.

**Background:**

The purpose of this assignment is to get practice working with textual data. In Ruby, string is a class and comes with many different operations we can perform on it.  The programming project below will ask you to learn some of these new capabilities.

**Project 1:** **Username/Password Validator**Create a Ruby program which prompts for a username and password and validates that they meet the following criteria:

The username should:  
- have at least 8 characters long  
- contain alpha numeric characters (no spaces or special characters)  
- contain at least 1 uppercase character  
- contain at least 1 lowercase character  
- contain at least 1 numeric character (0-9)

The password should:  
- not contain a user’s username (i.e. the username “CraigKapp1″ is valid, but the password “CraigKapp1Password” is not valid because it contains the string “CraigKapp1″)  
- be at least 8 characters long  
- only contain alpha numeric characters (no spaces or special characters)  
- contain at least 1 uppercase character  
- contain at least 1 lowercase character  
- contain at least 1 numeric character (0-9)

 A number of different program dialogues describe the program I am looking for.

CS83R Username/Password Validator  
Username: ***SmcCorsair1***  
Password: ***GoDodgers1***  
The Username/Password combination is valid!

CS83R Username/Password Validator  
Username: ***SmcCorsair***  
Password: ***GoDodgers1***  
The Username requires numeric character

CS83R Username/Password Validator  
Username: ***smccorsair1***  
Password: ***GoDodgers1***  
The Username requires an uppercase character

CS83R Username/Password Validator  
Username: ***SMCCORSAIR1***  
Password: ***GoDodgers1***  
The Username requires an lowercase character

CS83R Username/Password Validator  
Username: ***corsair***  
Password: ***GoDodgers1***  
The Username requires atleast 8 letters

CS83R Username/Password Validator  
Username: ***SmcCorsair1***  
Password: ***aaSmcCorsair1aa***  
The Password cannot contain the Username

CS83R Username/Password Validator  
Username: ***SmcCorsair1***  
Password: ***gododgers1***  
The Password requires an uppercase character

CS83R Username/Password Validator  
Username: ***SmcCorsair1***  
Password: ***GODODGERS1***  
The Password requires an lowercase character

CS83R Username/Password Validator  
Username: ***SmcCorsair1***  
Password: ***Smc1***  
The Password requires atleast 8 letters