**Assignment 9 Pseudocode**

1. Ask user to input User name “User Name: “ and save to variable *username*
2. Initiate variable *validPW* and set equal to “false”
3. While *validPW* is false
   1. Ask user to input their Password “Password: “ and save to variable *password*
   2. Call function *validatePassword* passing it the variable *password* and saving the returned value to variable *validPW*
   3. Print a blank line

**validatePassword(*password*) Function**

1. Initiate variable *upperCount*
2. Initiate variable *numCount*
3. Initiate variable *lowerCount*
4. Initiate variable *pwLength*
5. Initial variable *validPassword* and set equal to “true”
6. Set *pwLength* = length of value passed to function in *password*
7. For *i* in *password*
   1. If *password* of index *i* is uppercase
      1. *upperCount* = *upperCount* + 1
   2. If *password* of index *i* is lowercase
      1. *lowerCount* = *lowerCount* + 1
   3. If *password* of index *i* is a number
      1. *numCount* = *numCount* + 1
   4. *i* = *i* + 1
8. If *pwLength* < 5 then
   1. Set *validPassword*  to “false”
   2. Print “Password must be at least 5 characters long”
9. If *upperCount* < 1 then
   1. Set *validPassword*  to “false”
   2. Print “Password must contain an uppercase letter”
10. If *lowerCount* < 1 then
    1. Set *validPassword*  to “false”
    2. Print “Password must contain a lowercase letter”
11. If *numCount* < 1 then
    1. Set *validPassword*  to “false”
    2. Print “Password must contain a number”
12. Return *validPassword*