Authentication System

The following pseudocode is a description of how I will create a Java program that will allow users to log in to a system. They will be authenticated by a file on hand. The users must be prompted to login to a system. This system must have the usernames and passwords in a separate file for authentication to occur. The program will check the users’ inputs with the file and verify that they are in the system. Once logged in, the user’s role will be displayed to him or her. The user will have an option to log out. This will bring the user to the credentials screen again. If a user cannot successfully login after three attempts, the program will exit. The program must prompt the user for input, validate the input from an outside file source, contain a lockout mechanism for users who cannot login after three attempts, and allow users who have logged in identify their roles and log out. I have put the pseudocode on the following page to minimize errors when reading it.

function authenticationSystem():

PROMPT user for username

PROMPT user for a password

CONVERT password to MD5

Validate credentials

PARSE inputFile containing usernames and passwords

IF username and password match

Allow user access

PRINT user role

ELSE

WHILE user login attempts do not equal three

PROMPT user for login credentials

IF login attempts equal three

PRINT that the user has reached the limit of attempts

EXIT the program

Allow logged in users to log out

IF user is logged in

PRINT logout information

IF user opts to log out

PROMPT user for login information // Credential Screen

ELSE

PROMPT user for login information // Credential Screen

Exit program