* Use a menu for user options. Give an error message if the user doesn’t choose a valid option.
* Option 1 Sign in:
  + Prompt user to enter login id
    - Ensure the login id is in the password.dat file
    - Give message if the id doesn’t exist and return to the menu
  + Prompt user to enter password
    - Validate password listed in the file, password.dat, for that login id
    - Give error message if the password is incorrect and return to the main menu
  + Give a message stating you are logged in.
  + Press enter to return to the main menu
* Option 2 Create a new user:
  + Prompt user to enter login id and password.
  + Validate login id – Loop until valid:
    - 6 – 10 letters
    - 2 numbers
    - No white space
    - Must not exist in the password.dat file
  + Validate Password – Loop until valid:
    - 6-12 Length
    - Must contain at least one number
    - Must contain a least one upper case letter
    - Must contain at least one lower case letter.
    - Must not contain white space
    - Password can’t contain the login id
    - Must be a unique password
* Save the valid user id and password to the password.dat file (The login id and passwords are stored on separate lines).
* Give a message stating you have created a new user id and password
* Press enter to return to the main menu
* Option 3 Reset Password:
  + Validate Password
  + Loop until a valid password has been created
  + Replace the existing password with the new value
  + Give a message stating the password has been reset
  + Press enter to return to the main menu
* Option 4 Exit:
  + Give a message to indicate the user has signed out and terminate the program.
* Limit the use of global variables. Practice the use of passing and returning values to/from your functions when feasible.
* Be sure to modularize your program.