Initial Setup: Creating/Configuring a GitHub Account

You will need to follow these instructions before you can accept an assignment in your instructor's GitHub classroom.

1. You will need to create GitHub account with using your RIT email. The username for this account must be **exactly** the same as your RIT username, e.g. in the format ABC1234.
   a. **If you do not already have a GitHub account**
      i. Navigate a browser to http://www.github.com
      ii. You should see a dialog inviting you to sign up. Alternatively, you can click the **Sign Up** link near the top right of the page.
      iii. In the **Username** field, type **your RIT user ID** (e.g. ABC1234).
      iv. In the **Email** field type your RIT email address (ending in .edu; THIS IS IMPORTANT).
      v. In the **Password** field, type a password that you can remember.
      vi. Finally, click the **Sign up for GitHub** button.
      vii. If you are prompted to choose a personal plan, choose the free one.
      viii. If you are prompted to answer personal questions (such as your programming experience), feel free to skip these
      ix. If you are prompted to create a new project or repository, just skip to step 2 below.
   b. If you already do have a GitHub account, but the username is different from your RIT username, you have two options.
      i. Follow the instructions above to create a new account with the correct username. **Note** that you may run into problems trying to use two different GitHub accounts on the same computer because many applications (including IntelliJ IDEA) only store *one* set of credentials.
      ii. Change the username of an existing account to match your RIT username.
      iii. You should also add your RIT email (ending in .edu) to your account if you have not done so already.
   c. You will receive an email from GitHub asking you to confirm your new account. Follow the instructions in the email.
2. Go to https://git-scm.com/downloads and download/install the Git client for your operating system. **Be sure** to remember where you installed it!
3. Verify that you have installed git properly by opening a command line terminal and typing the **git** command. You should see a long usage message print to the console.

Joining a GitHub Classroom Assignment

1. Your instructor will provide you with a unique URL for each assignment. Type this URL into your browser.
2. You should be prompted to accept the invitation to the assignment. Click the **Accept this assignment** button in the middle of the page.
3. After a short while, you should see a message that **You are ready to go!** Below this will be a link that starts with "http://github.com/…" and ends with your RIT username. Click this link; it will take you to your brand new GitHub repository. If any starter code has been provided as part of the assignment, you will find that the code is already in your repository.
4. Bookmark or copy this link (to your repository)! You will need it later.

Getting Started in IntelliJ: Starter Code Provided

Configure IntelliJ to use Git and GitHub.
1. Launch IntelliJ. If it opens a project (e.g. the last project on which you were working), use the **File → Close Project** menu option. **Do not quit IntelliJ**. Just close the currently opened project.
2. You should now see the IntelliJ welcome splash screen.
   a. In the bottom right corner, click the **Configure** menu and choose the **Settings** (PC) or **Preferences** (Mac) option.
3. When the settings dialog opens, type "git" into the search field in the top left of the dialog. You should now see two options in the left that are highlighted: **GitHub** and **Git** (both are listed under **Version Control**).
   a. Click **GitHub** in the pane on the left and, in the pane to the right:
      i. Type **github.com** into the **Host** field.
      ii. To the right of the **Host** field you will see a drop down menu named **Auth Type**. Make sure that this is set to the **Password**.
      iii. Type your username (which should be the same as your RIT user ID) into the **Login** field.
      iv. Type your password into the **Password** field.
      v. Click the test button to make sure that you entered everything correctly.
   b. Next, click **Git** in the pane on the left and, in the pane on the right:
      i. Make sure that the **Path to Git executable** is set to the location where you installed **Git**. If necessary, click the **…** button to the right and browse to the installation location.
      ii. Click the **Test** button to make sure that IntelliJ can find and use Git.
   c. Click the **OK** button in the bottom right corner of the settings dialog.

4. You should now be returned to the IntelliJ IDEA welcome splash screen.
    a. In the menu on the right side of the splash, click the **Check out from Version Control** menu option.
    b. Choose **Git** from the popup menu.
    c. In the dialog, paste or type <u>the URL for your repository</u> into the **URL** field.
    d. Click the test button near the top right of the dialog. You **should** be prompted to enter your GitHub username and password. If you are not, see the instructions above to configure IntelliJ for your GitHub account and then return to this step.
    e. Change the **Directory** to the location of your choice in the filesystem.
    f. Click **Clone**.
5. After a moment, you should see that the starter code project has been downloaded and you can begin your lab.