Installation of Visual Studio Code

Visual Studio Code

For programming projects this semester, we will use Visual Studio Code to complete Java assignments. To install Visual Studio Code for use with Java, visit
[Visual Studio Code Website]
and click the button corresponding to the machine you use: Windows or….. *Mac* 😝.

Install the Coding Pack for Java - Windows

Install the Coding Pack for Java - macOS

The first 2.5 minutes of this video may be helpful, also.

Git with VS Code

Here is another video with instructions:

Longer Version

SFA antispyware software can be fickle when it comes to allowing Java to compile and develop. Hence, here are some more detailed instructions. These should fix issues if you are having problems with Visual Studio Code on campus.

1. Install visual studio code on your laptop: https://code.visualstudio.com/docs/setup/windows

2. Check if your computer already has an older version of JDK installed. If you are on Windows, then go to **Control Panel -> Uninstall Programs** and check whether Java is already installed. In this case, you need to uninstall the older java version and then install jdk-18.

3. Install jdk-19 on your laptop
   https://www.youtube.com/watch?v=cRgLuNWCq6c&ab_channel=AmitThinks

4. Install the **Java Extension Pack** for Visual Studio Code. This provides many features for efficient java development such as IntelliSense, debugging, testing, etc. To know how to install any extensions in VS Code, you can click on the following link:
   https://code.visualstudio.com/learn/get-started/extensions
   or go here: https://code.visualstudio.com/docs/java/java-tutorial and select

   

   Note: If you are using a classroom computer, then after Step 3, you are required to perform the following step:
   a. Open Visual Studio Code and Go to the **settings.json** file, (press **Ctrl + SHIFT + P**) and type **settings.json** and click on the file. VS Code will open the file.
   b. Add the following line of code at the end (don't forget to add a comma at the end of the previous line before you add the following)
      "java.jdt.ls.vmargs": "-Xlog:jni+resolve=off"
      Your settings have something similar (not exactly) to this:

```
{
    "java.jdt.ls.java.home": "C:\\Program Files\\Java\\jdk-18.0.2.1",
    "java.jdt.ls.vmargs": "-Xlog:jni+resolve=off",
```

5. Now you are ready to write and run java programs in the VS Code editor. Let's create a java project first, by clicking on the gear icon in VS Code and then selecting **Command Palette**. Now in the search bar enter "java" and select **Create Java Project** from the dropdown menu.

   VS Code will ask you to select a path for your project and provide a name. VS Code will fire up the project with the default directory structure and default App.java file in the **src** folder. Now is to press the "Play" button to run your program You should see the message "hello world" appear in the VS Code terminal.