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# **Class Setup**

Please perform the following setup **before** the start of Software Development Fundamentals class

#### **Software Installation**

Install the following software

1. Git - <a href="https://git-scm.com/downloads">https://git-scm.com/downloads</a>

Windows users, please install the 64bit version. See the following video (<a href="https://www.youtube.com/watch?v=4xqVv2lTo40">https://www.youtube.com/watch?v=4xqVv2lTo40</a>). For Windows installation.

Instructions for OSX users are on the download page.

- 2. Download and install JavaSE 18 from https://www.oracle.com/java/technologies/downloads
- 3. Install Visual Studio Code from <a href="https://code.visualstudio.com">https://code.visualstudio.com</a>. Launch VSC once you have completed the installation. You will need to install the Java extension.
  - On the left-hand side of the editor, click on the extension button ( ). In the extension search bar, type 'Extension Pack for Java'. This is a Microsoft extension. Install this extension.
- 4. Download Apache Maven from <a href="https://maven.apache.org/download.cgi">https://maven.apache.org/download.cgi</a>. The download bundle is just a Zip or Tar Gzip archive. Select either Binary tar.gz or Binary zip archive.

Windows users, unpack the contents into c:\opt directory. This will create a directory apache-maven-version. Add

C:\opt\apache-maven-version\bin to your PATH environment
variable

OSX users have the option to use brew or install directly from the archive. To install with brew, type the following in a terminal

brew install maven

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## 5. Install OpenSSH client.

Window users, see

https://docs.microsoft.com/en-us/windows-server/administration/openssh/openssh install firstuse. Note you only need to install OpenSSH Client.

OSX should have OpenSSH client installed. To verify, open a terminal and type

This should display the location of ssh-keygen binary.

Once you have installed (Windows and OSX), open a terminal and type the following command to check the version

You should see something similar

```
OpenSSH_8.2p1 Ubuntu-4ubuntu0.4, OpenSSL 1.1.1f 31 Mar 2020
```

Note the version must be at or above 1.1.1f.

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## **Verify Your Setup**

Once you have installed all the above software, open a new terminal and type 'version' for each of the above. This step ensures that you have set the PATH variable correctly

- git version
- java -version
- mvn --version
- ssh -V

#### **Accounts**

Create the following accounts

1. Github – if you do not have an account, please go to <a href="https://github.com">https://github.com</a> to create an account.

After you have created and verified your Github account, open a terminal and configure your git software with your name and email.

In the terminal type the following command entering your name and email

```
git config --global user.name your_name
git config --global user.email your email
```

The name and email should ideally be the one you used to register the Github account