1. Install Notepad++ (optional).
   1. Navigate to <https://notepad-plus-plus.org/downloads/> and download the most recent release.
   2. Run the installer
2. Acquire Git for Windows
   1. Navigate to <https://git-scm.com/download/win>
   2. Download the 64-bit or 32-bit installer based on your computer.
   3. Use the installer to add GitHub to your computer. Suggested selections are below
      1. Use the default components on the ‘Select Components’ screen.
      2. Select Notepad++ as the default editor (if installed earlier).
      3. Switch to ‘Override the default branch name for new repositories’.
      4. Select the default ‘Git from the command line and also from third-party software’
      5. Select the default ‘Use the OpenSSL library’
      6. Select ‘Checkout Windows-style, commit Unix-style line endings’.
      7. Select MinTTY, because it is far better than Windows command line
      8. Select default option for Git Pull
      9. Select default option ‘Git Credential Manager Core’
      10. Select default ‘Enable file system caching’, while not enabling symbolic links.
      11. Pass on enabling the pseudo consoles
      12. Install. On the final screen, deselect ‘View Release Notes’ and select ‘Launch Git Bash’
3. Download our repository
   1. Using your new Git Bash Window, navigate to the folder in which you would like to create the CREDA repository directory.
   2. Run the command mkdir CREDA, and then cd CREDA to enter the newly created CREDA directory
   3. Run the command git clone https://github.com/fishinvest/CREDA\_tools.git
      1. It should take you online to authorize your Windows Git
      2. Once this is created one can update the code using either git pull or git merge from the CREDA\_tools directory.
   4. Back in Git Bash, you should now see ‘CREDA\_tools’ if you issue the ls command. Change the working directory into that folder (cd CREDA\_tools).
   5. Confirm a correct install of CREDA\_tools by entering git status
      1. You should see the text ‘nothing to commit, working tree clean’. This indicates that up to date code is now in the repo
   6. Run cd .. to go back into the CREDA directory
   7. Run mkdir temp\_files to create the folder our program uses for temp files.
4. Download Python - The easiest way to do this should be through Anaconda
   1. Go to <https://www.anaconda.com/products/individual> and download the appropriate 32/64 bit Windows installer.
   2. Defaults and finish without opening anything.
5. Install Libraries
   1. Install buildingid
      1. Within the Git Bash, navigate to your CREDA folder (not CREDA\_tools)
      2. Enter git clone https://github.com/pnnl/buildingid-py
      3. Open and run an Anaconda (i.e. “Spyder”) python console.
      4. Navigate to CREDA, then cd buildingid-py
      5. Run pip install -e .
   2. Install the Census Geocoder option
      1. From the Anaconda console run pip install censusgeocode
   3. Install shapely
      1. The buildingid installation attempts to install shapely if it is not already installed, but we’ve experienced instances where shapely did not install correctly. To hedge against this, from the Anaconda console, run conda install shapely
6. Run test cases
   1. From within Anaconda, open the following code files
      1. CREDA/CREDA\_tools/sample\_code/external\_geocoder.py
      2. CREDA/CREDA\_tools/sample\_code/internal\_geocoder.py
   2. From within the CREDA/CREDA\_tools directory, you should be able to run the code in each of these script files