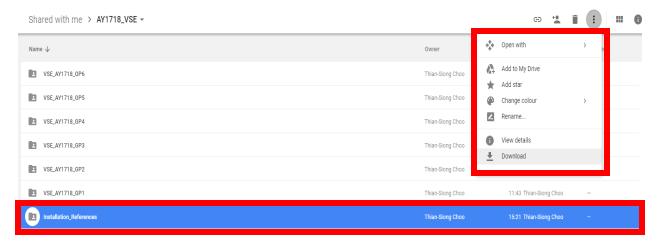
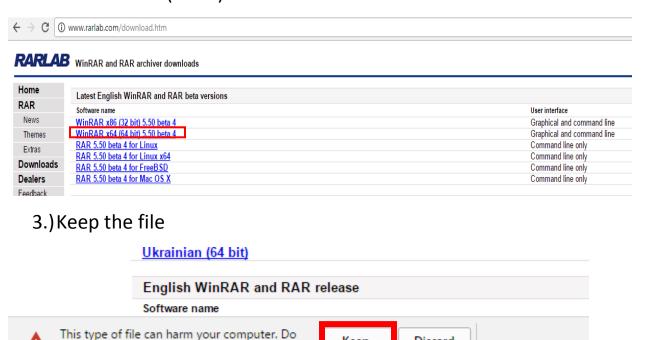
1.) Download the "Installation_References" folder from the google drive.



2.) If you already have a program to unzip the downloaded file please skip this step and move on to step 7. Download winrar from www.rarlab.com/download.htm and download "WinRARx64(64bit)5.50 beta 4"

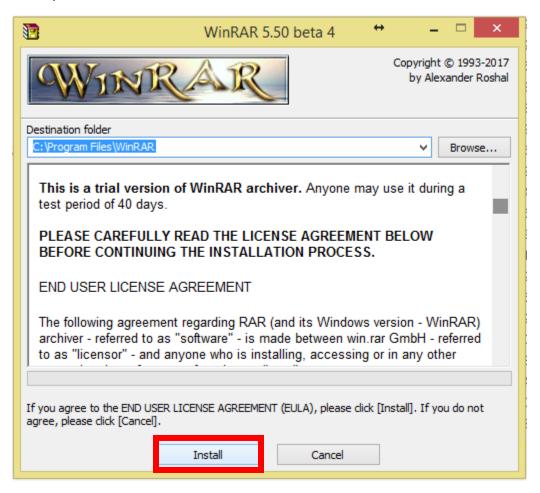


Keep

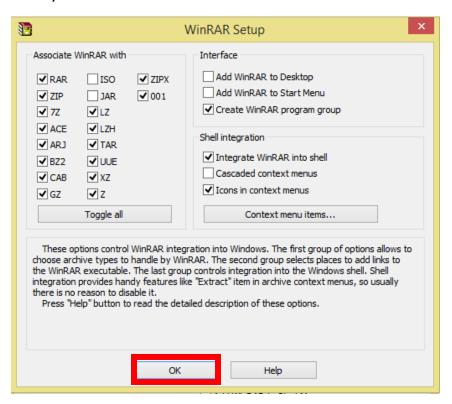
you want to keep winrar-x64-55b4.exe anyway?

Discard

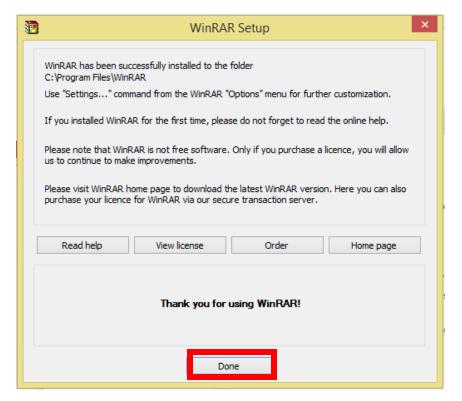
4.) Install winrar



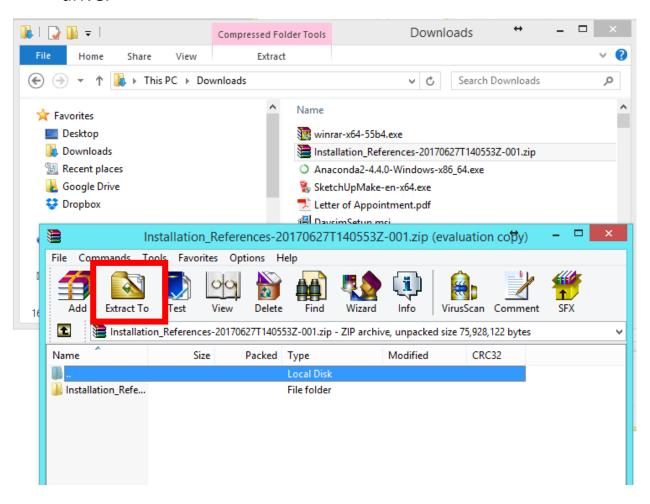
5.) Click "OK"



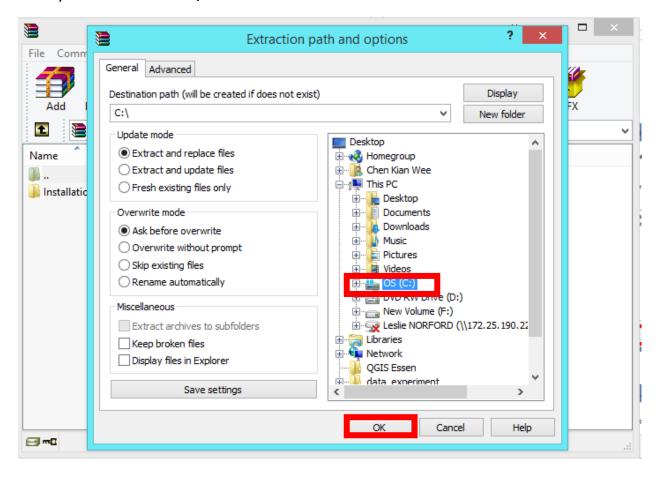
6.) Click "Done"



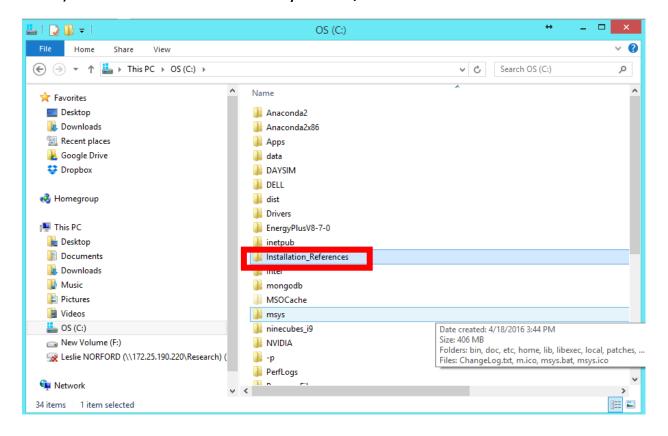
7.)Unzip and extract the "Installation_References" zip file to your c:\ drive.



8.) Extract it to c:\ drive as shown and click "OK"

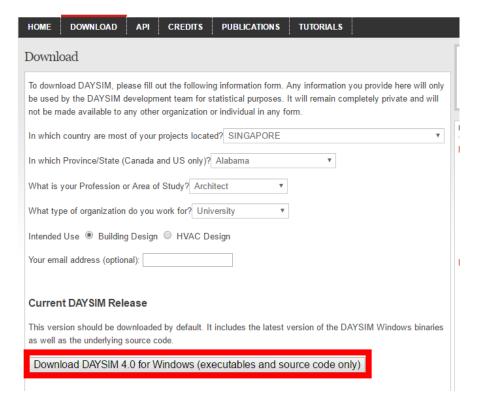


9.)You will see the folder in your c:\ as shown here

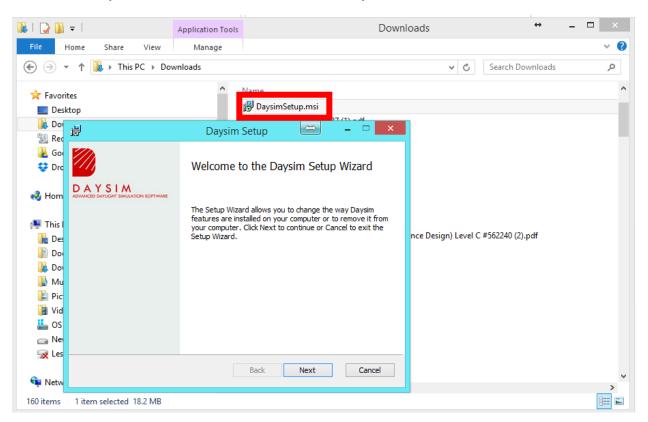


10.) Download Daysim from

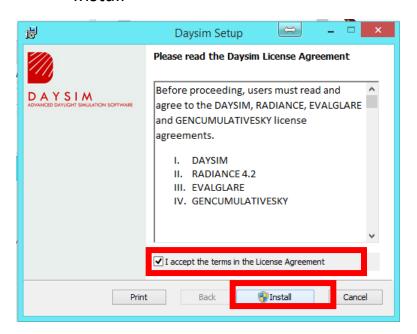
http://daysim.ning.com/page/download



11.) Go to the "DaysimSetup.msi" file in your download folder after you downloaded it. Install Daysim. Click "Next"

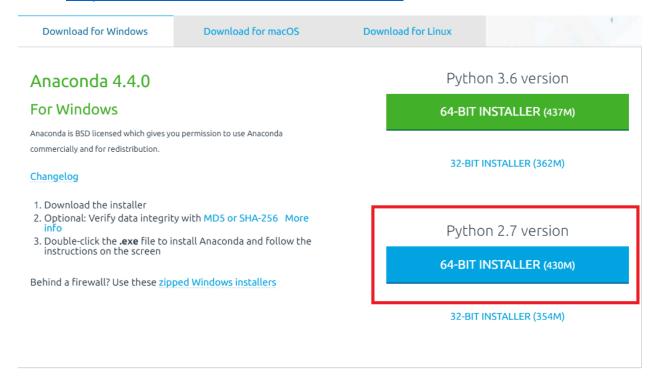


12.) Tick "I agree the terms in the License Agreement" and "Install"

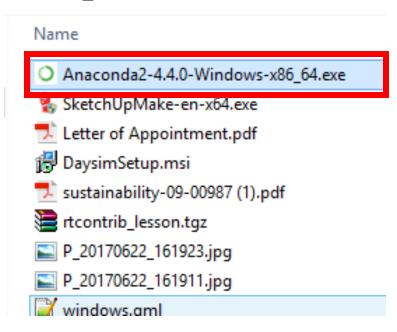


13.) Download anaconda for python 2.7 at

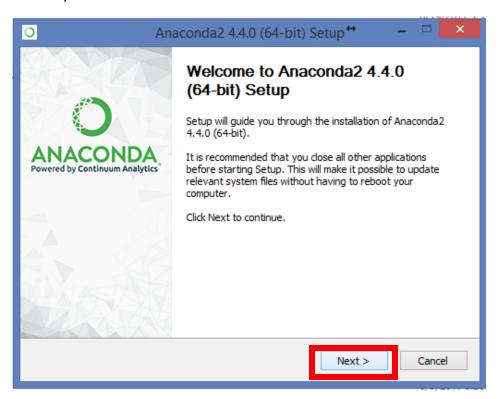
https://www.continuum.io/downloads



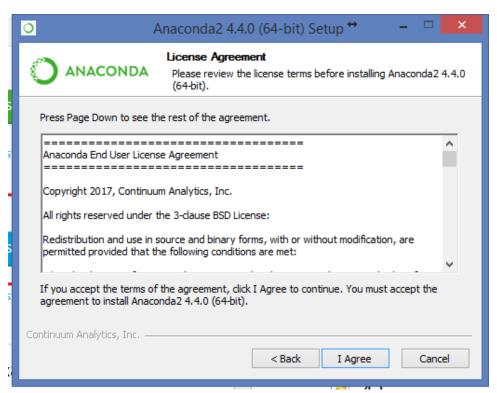
14.) Double click on the "Anaconda2-4.4.0-Windows-x86_64.exe" to install Anaconda



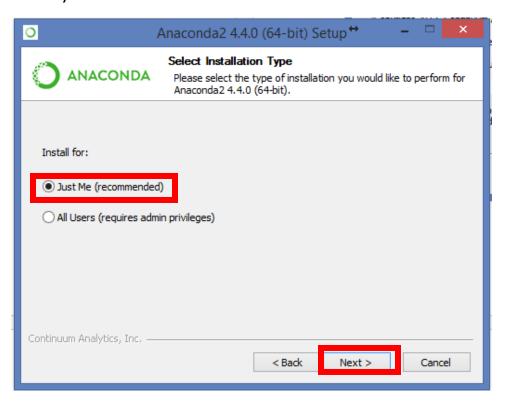
15.) Click Next



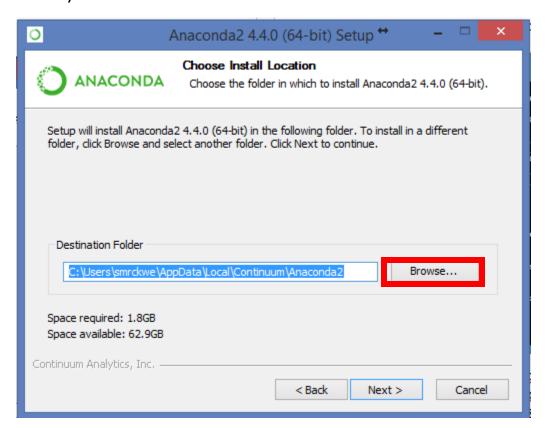
16.) Click I agree



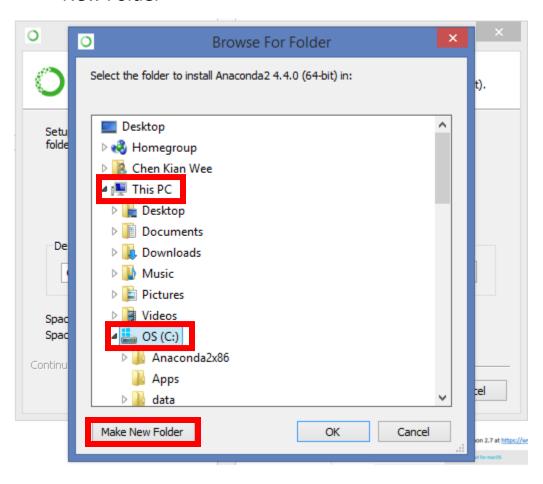
17.) Tick "Just me" and click Next



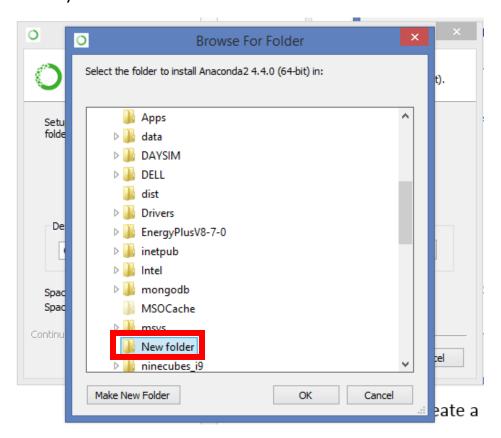
18.) Click on "browse"



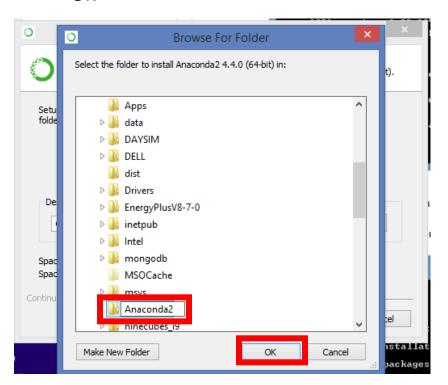
19.) Click on "This PC" and then "OS(C:)" and then click "Make New Folder"



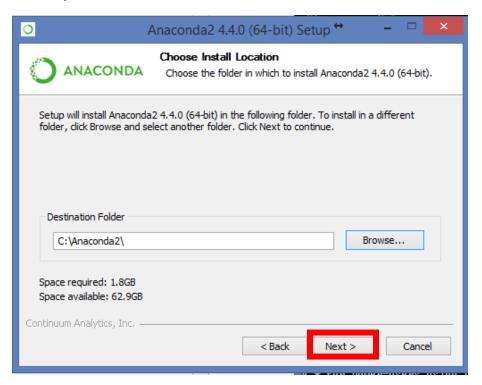
20.) This will create a "New Folder"



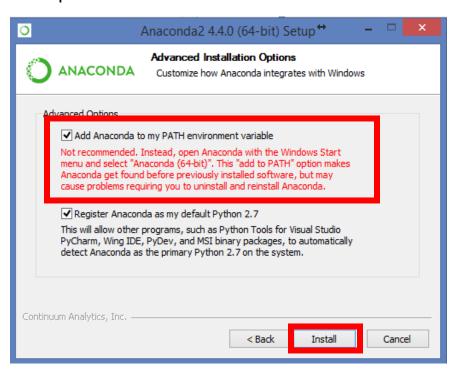
21.) Change the name of the folder to "Anaconda2" and press "OK"



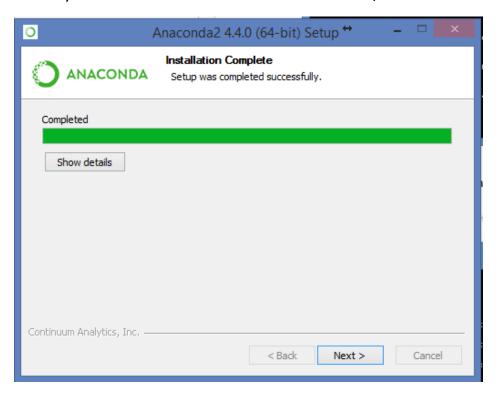
22.) Press "Next"



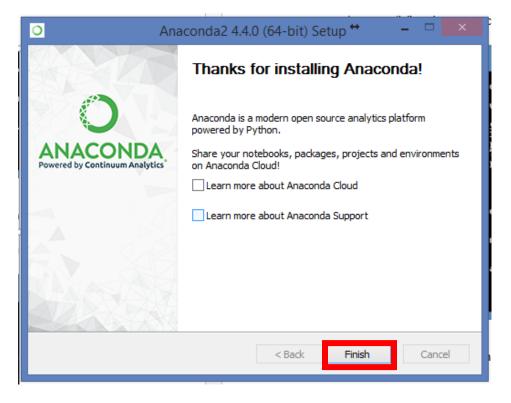
23.) Tick "Add Anaconda to my Path environment variable" and press install



24.) Anaconda will install as shown, and click "Next".



25.) Untick "learn more about anaconda cloud" and "learn more about anaconda support", then click finish.



26.) Go to search and type in "cmd", then click on "command prompt"



27.) Type in "conda install -c conda-forge -c dlr-sc -c pythonocc -c oce pythonocc-core==0.18" and press enter

```
Command Prompt

Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\smrckwe\conda install -c conda-forge -c dlr-sc -c pythonocc -c oce pythonocc-core==0.18
```

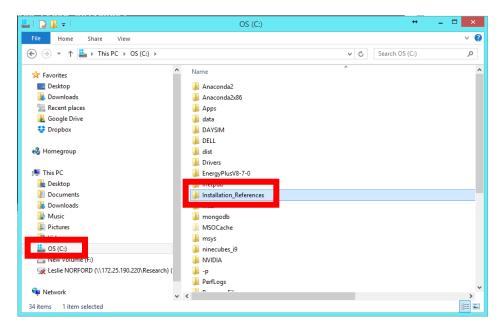
28.) Type in "conda install -c conda-forge -c dlr-sc -c pythonocc -c oce pythonocc-core==0.18". Type in "y" and enter

```
🔤 Command Prompt - conda install -c conda-forge -c dlr-sc -c pythonocc -c 🕏 ce ...
H:∖>activate spvse
(spvse) H:\>conda install -c conda-forge -c dlr-sc -c pythonocc -c oce pythonocc
-core==0.18
Solving package specifications: .
Package plan for installation in environment C:\Anaconda2\envs\spvse:
The following NEW packages will be INSTALLED:
                                            2017.4.17-0
3.17.0-vc9_0
2.7-vc9_1
1.3.8-vc9_0
58.1-vc9_1
        ca-certificates:
freeimageplus:
                                                                                       conda-forge
                                                                                       dlr-sc
                                                                                                                 [vc9]
                                                                                                                 [vc9]
[vc9]
                                                                                       conda-forge
dlr-sc
        freetype:
        g12ps:
                                                                                       conda-forge
conda-forge
conda-forge
                                                                                                                 [vc9]
[vc9]
         icu:
        jpeg:
libpng:
                                          9b-vc7_5
1.6.28-vc9_0
0.18.1-vc9_1 oce
1.0.2k-vc9_0 conda-forge
5.6.0-py27_4 conda-forge
0.18-py27_vc9_0 pythonocc [vc9]
5.6.2-vc9_1 conda-forge
1.18-py27_1 conda-forge
6.7.4-vc9_0 pythonocc [vc9]
2017_20170226-vc9_0 conda-forge
9-0 conda-forge
1.0017_20170226-vc9_0 conda-forge
        oce:
        openss1:
        pyqt:
pythonocc-core:
        qt:
sip:
         smesh:
        tbb:
        vc:
zlib:
Proceed ([y]/n)? y_
```

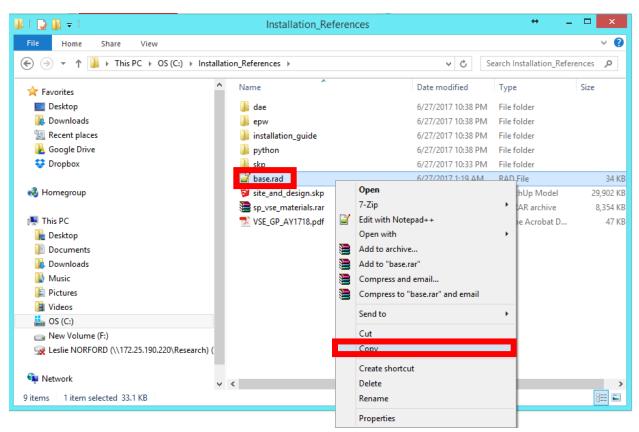
29.) Type in "conda install scipy", type in "y" and enter

30.) Type in "pip install pyliburo"

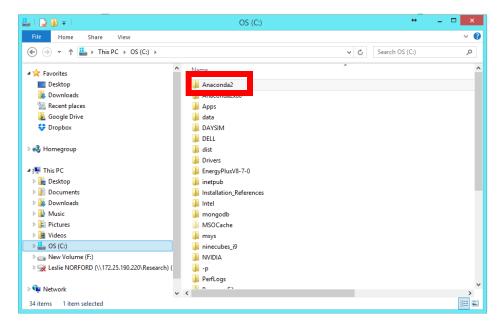
31.) Next go to C:\Installation_References folder double click to enter the folder



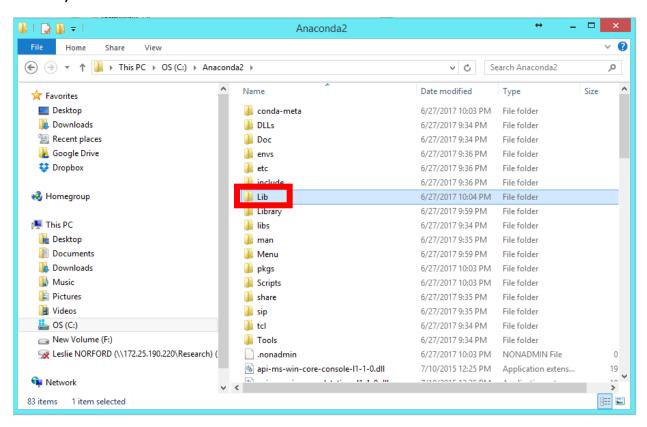
32.) Copy the "base.rad" file



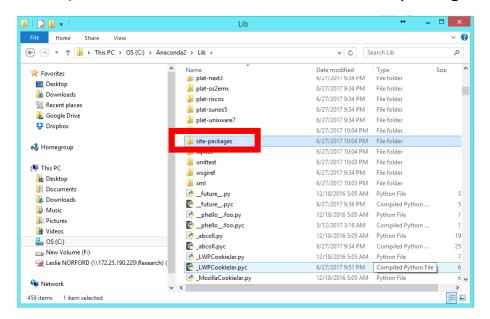
33.) Go c:\Anaconda2 double click to enter the folder



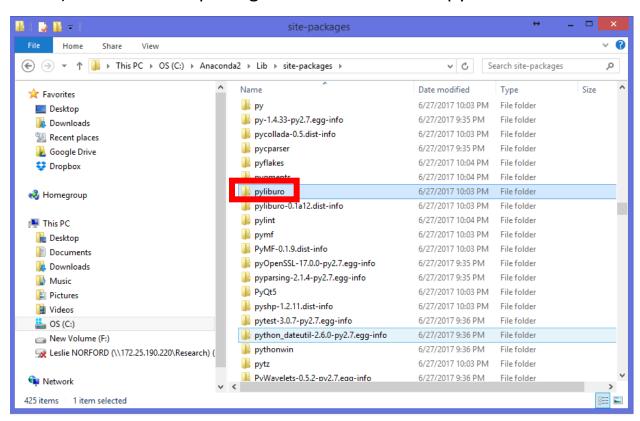
34.) In the Anaconda2 folder double click Lib



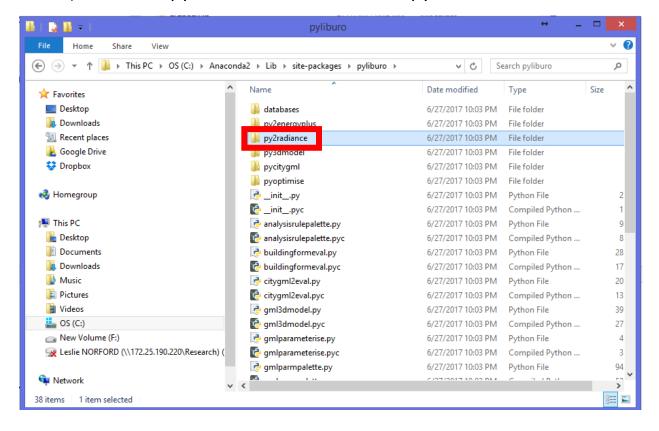
35.) In the Lib folder double click site-packages



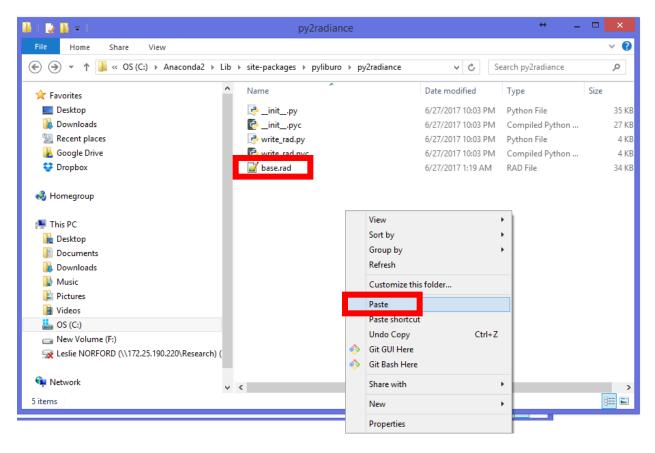
36.) In the site-packages folder double click pyliburo folder



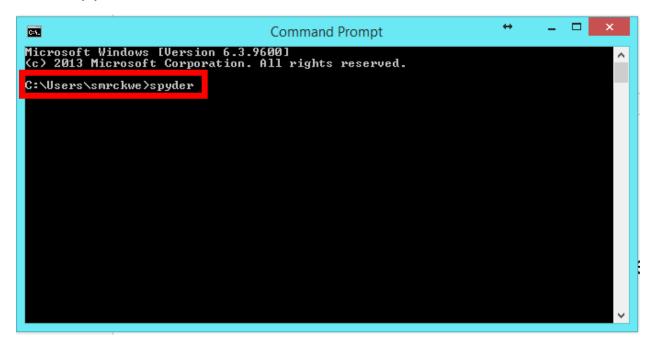
37.) In the pyliburo folder double click py2radiance folder



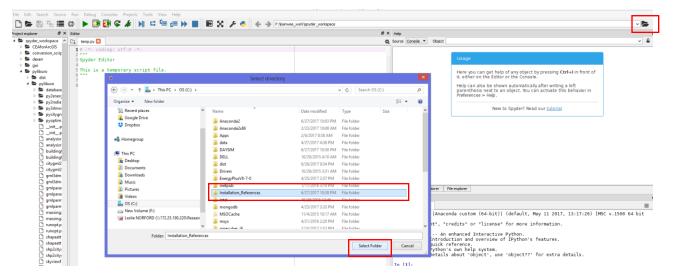
38.) Paste the base.rad file into the py2radiance folder



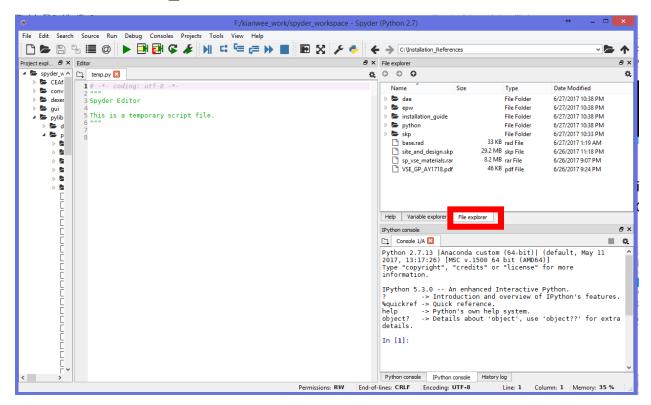
39.) Now go to your command prompt window and Type in "spyder" and enter.



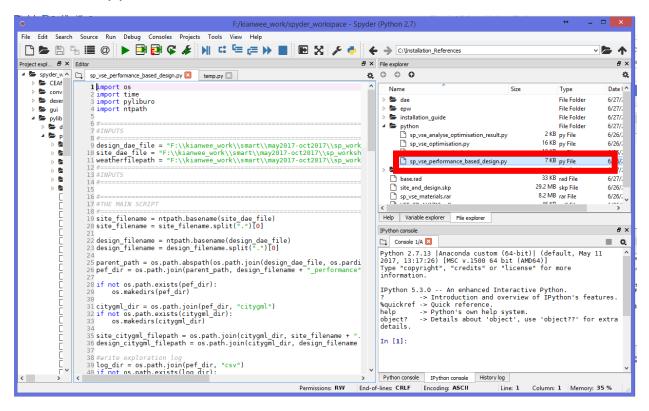
40.) Spyder will load and open. Click on the folder icon in spyder, and navigate to the "c:\Installation_References" folder. Click on the "Installation_References" and click "Select Folder"



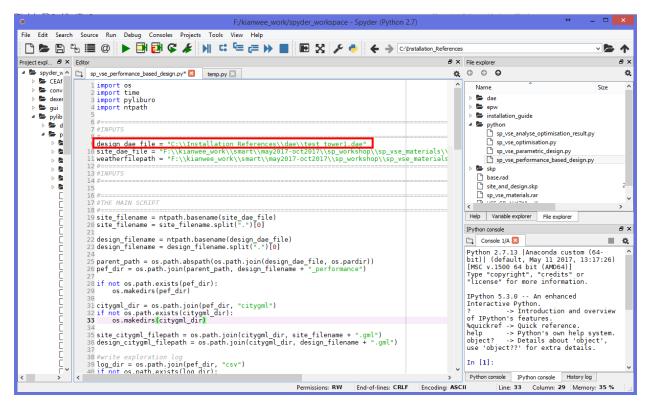
41.) Click on "File Explorer" to see all the files in the "Installation_References" folder



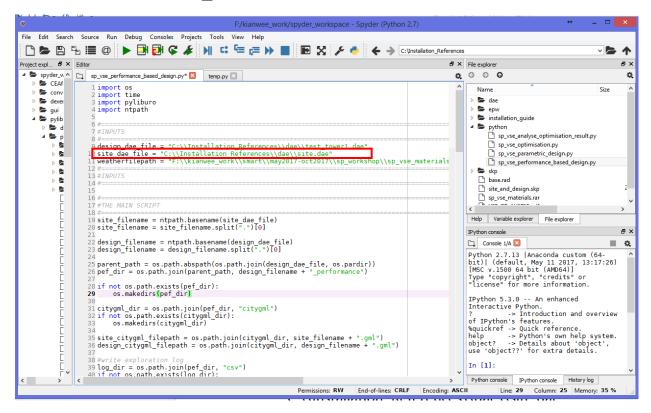
42.) Click on the down arrow at the "python" folder, and double click on the "sp_vse_performance_based_design.py". The script will appear on the left window.



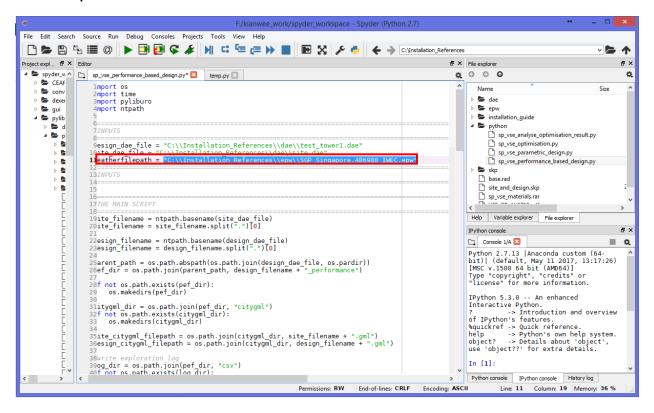
43.) In the script change the "design_dae_file" to "C:\\Installation_References\\dae\\test_tower1.dae"



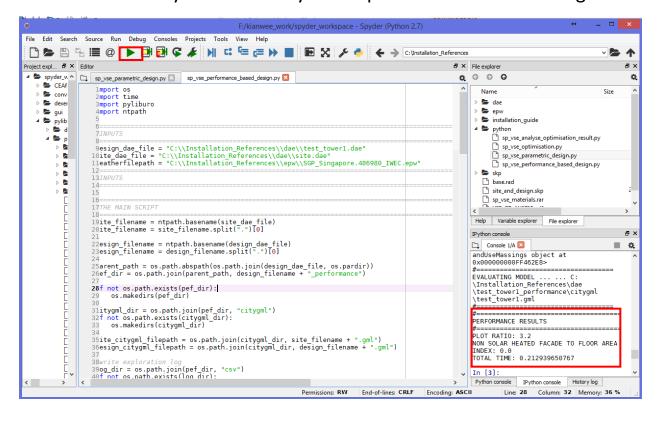
44.) In the script change the "site_dae_file" to "C:\\Installation_References\\dae\\site.dae"



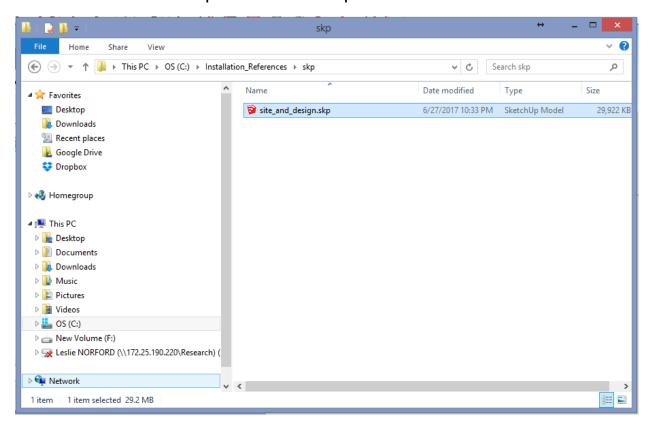
45.) In the script change the "weatherfilepath" to "C:\\Installation_References\\epw\\SGP_Singapore.486980_IWEC .epw"



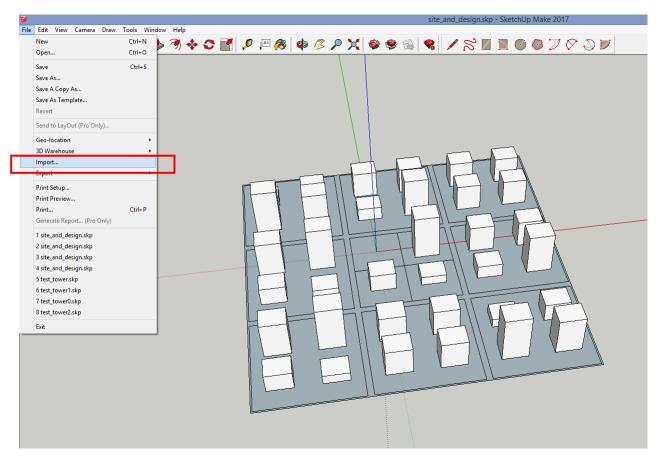
46.) Click the run button as shown in the figure and the script will run the analysis and show you the performance of the design.



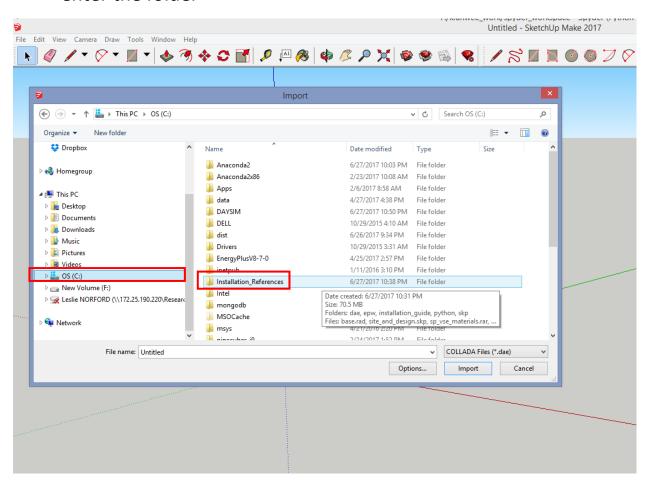
47.) Go to C:\Installation_References\site_and_design.skp, double click to open the sketchup file.



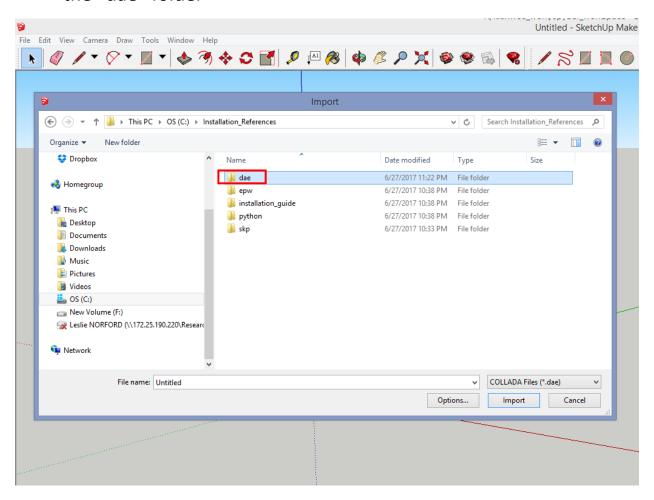
48.) Go to sketchup – file – import



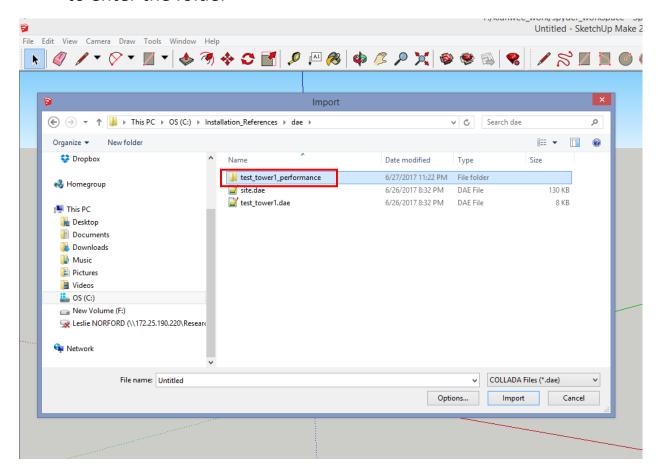
49.) Go the folder c:\Installation_References double click to enter the folder



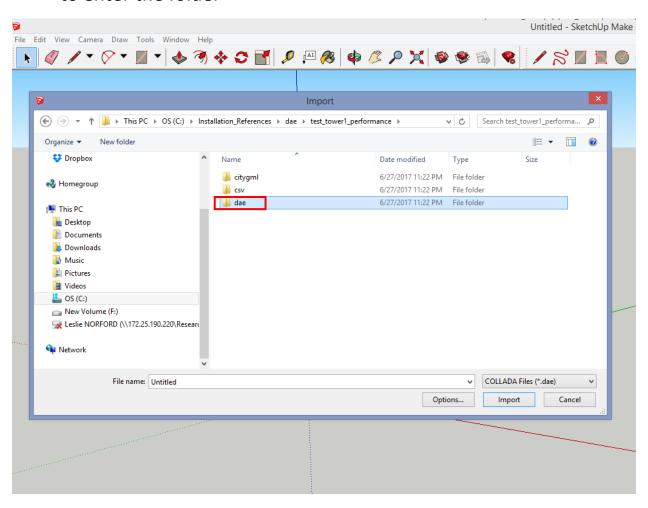
50.) In the "Installation_References" folder double click to enter the "dae" folder



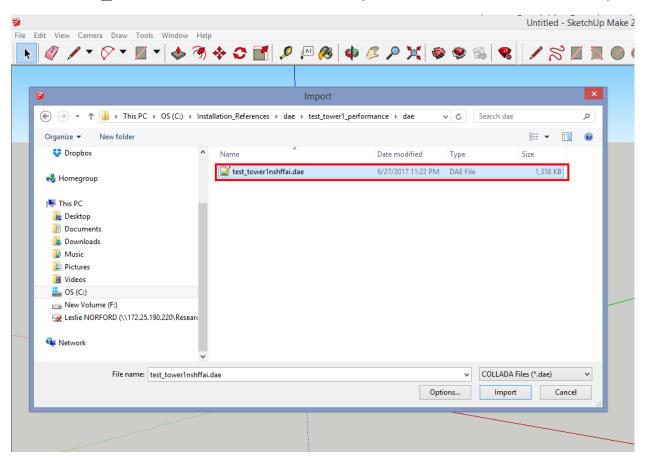
51.) In the "dae" folder double click "test_tower1_performance" to enter the folder



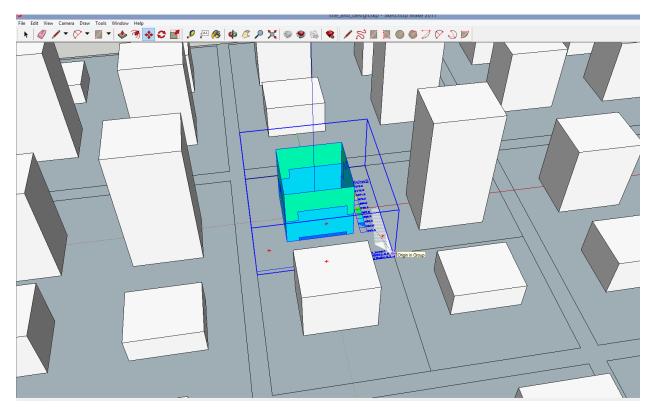
52.) In the "test_tower1_performance" folder double click "dae" to enter the folder



53.) In the "dae" folder double click the "test_tower1nshffai.dae" file to import the results into sketchup.



54.) Import the file and put it in place to view the results.



55.) Congratulation! You have successfully install the library.