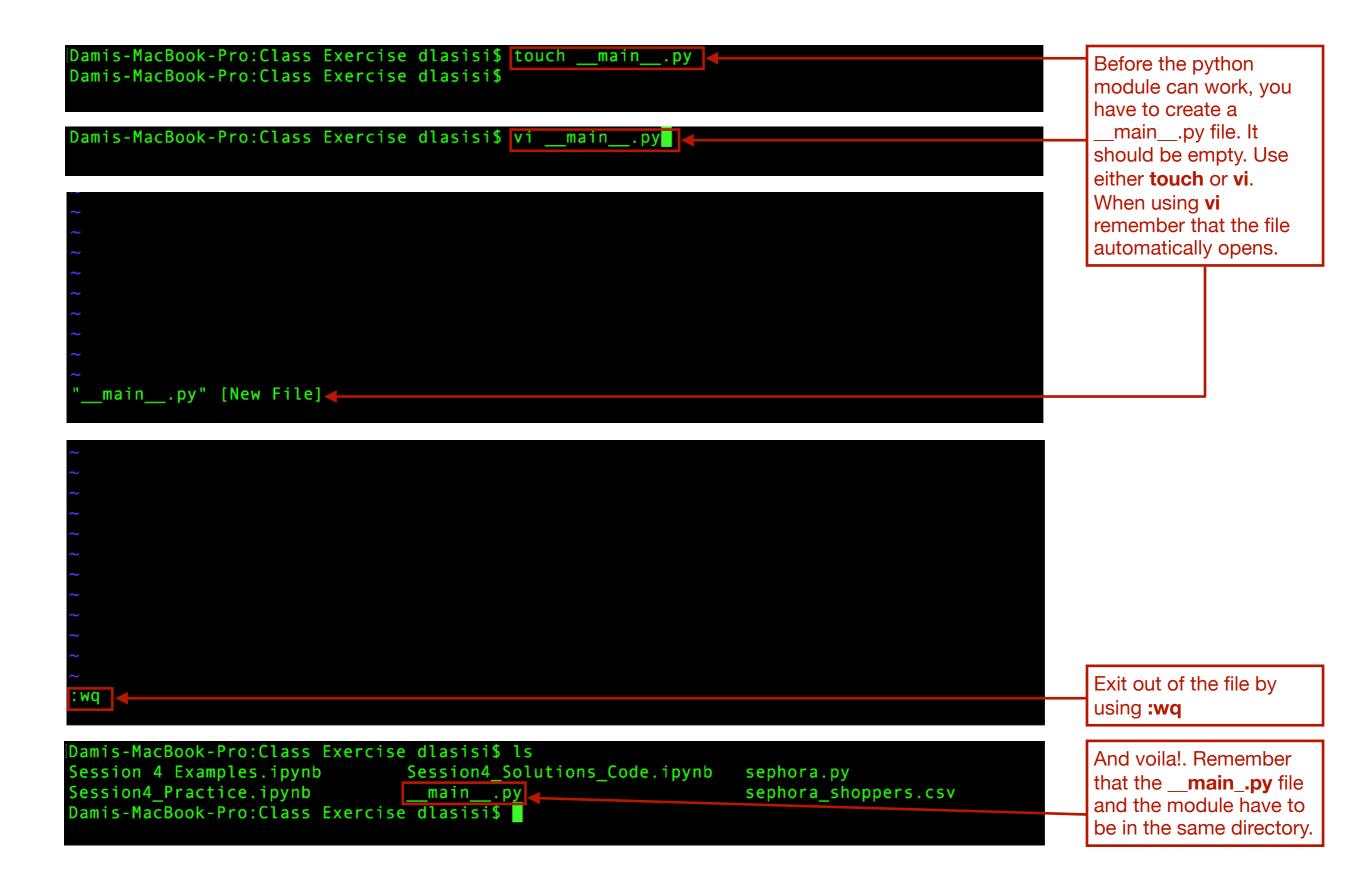
## Creating Python Modules

Unit 1, Session 4

```
Damis-MacBook-Pro:Class Exercise dlasisi$ ls
                               Session4 Solutions Code.ipynb
Session 4 Examples.ipynb
                                                                sephora_shoppers.csv
Session4_Practice.ipynb
                               sephora.py <-
Damis-MacBook-Pro:Class Exercise dlasisi$ head sephora.py
import datetime
import pandas as pd
class BeautyInsider:
   def __init__(self, name, points, birthday,
                purchasetoday=0, redeemedpoints=0, rinvitation='No', rmonthlygift='No',
                rbirthdaygift='No'):
       self.name = name
       self.points = points
       self.birthday = birthday
Damis-MacBook-Pro:Class Exercise dlasisi$
```

We can create python modules by a saving class script in a python file. We can view parts of this file in terminal by typing the command head sephora.py



```
Damis-MacBook-Pro:Class Exercise dlasisi$ ls
Session 4 Examples.ipynb
                               Session4_Solutions_Code.ipynb
                                                                pycache
                               __main_ .py
Session4 Practice.ipynb
                                                                sephora.py
Damis-MacBook-Pro:Class Exercise dlasisi$ python
Python 3.6.4 | Anaconda, Inc. | (default, Jan 16 2018, 12:04:33)
[GCC 4.2.1 Compatible Clang 4.0.1 (tags/RELEASE 401/final)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> import sephora
>>> import pandas as pd
>>>
>>> df = pd.read_csv('sephora_shoppers.csv')
>>> InsiderStatus = []
>>> for i in range(len(df)):
        myBI = sephora.BeautyInsider(df.iloc[i][1], df.iloc[i][2], df.iloc[i][0], df.iloc[i]
f.iloc[i][5], df.iloc[i][3])
       InsiderStatus.append(myBI.print_summary())
>>> InsiderStatus
         Benefits
                                      Instructions
   Total points
                                             1125
  Birthday gift Do not send birthday gift to Jon
   Monthly gift
                                Send monthly gift
                           Do not send invitation,
      Invitation
                                                            Benefits
   Total points
                                                 209
   Birthday gift Do not send birthday gift to Tywin
   Monthly gift
                           Do not send monthly gift
                                                             Benefits
      Invitation
                              Do not send invitation,
   Total points
                                                    985
   Birthday gift Do not send birthday gift to Daenerys
   Monthly gift
                                     Send monthly gift
                                                                Benefits
      Invitation
                                 Do not send invitation,
   Total points
                                                141
   Birthday gift Do not send birthday gift to Arya
   Monthly gift
                          Do not send monthly gift
                             Do not send invitation,
      Invitation
                                                            Benefits
   Total points
                                                1019
   Birthday gift Do not send birthday gift to Jamie
    Monthly gift
                                  Send monthly gift
```

Open python in your terminal.

Import your new module.

Read in your csv file.

Call your new module and the class within it, as well as it's arguments.