1. Project Overview: What were you trying to accomplish? What was your general approach?

I didn't really have a specific goal in mind. Most of this program just came about from playing around with functions. I started off the project testing to see if I could write code that would successfully access Facebook. Once I was able to download posts from a user's wall I tried out the various other functions in the pattern library and built up a program from there.

2. Implementation: How does your code work? What libraries did you use? How would someone (for instance a NINJA) run your code? What data structures (e.g. lists, dictionaries) did you use in your program and why?

At the prompt of a Facebook user's username, the program downloads posts from a their wall and sorts them based on the total number of comments and likes (i.e. determining the popularity of the post). The top 10 (or any hard-coded number of) posts will have their text analyzed for polarity and subjectivity. I used the pattern.web library extensively to download and process the data from Facebook and the pattern.en library to analyze the downloaded texts.
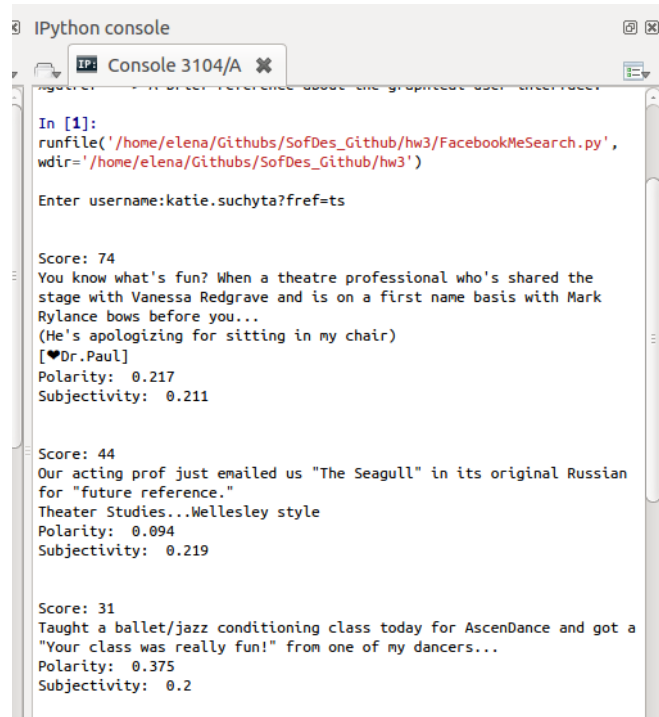
In order to make sure all posts had its corresponding popularity score, I had to store each post and score as a tuple. To rank the posts, I had to store all tuples to a list and have the sort function compare only the first element (the score) of every tuple in the list. I'm not sure what else counts as data structures.

To run the code:

1- Copy the username (everything after the last '\') as demonstrated here: [NOTE: the example shows an organization page, not a individual user, therefore the code will not work.]

2- Set all hard-coded parameters in lines 57, 58.
3-Run the code.
4- At the prompt "Enter username:", paste in the copied username
5- Sit back and wait.

3. Include some examples of your program's output.

```
IPython console                                            ⊡ ⊠
     IP: Console 3104/A  ✖                                   ☰▾

In [1]:
runfile('/home/elena/Githubs/SofDes_Github/hw3/FacebookMeSearch.py',
wdir='/home/elena/Githubs/SofDes_Github/hw3')

Enter username:katie.suchyta?fref=ts


Score: 74
You know what's fun? When a theatre professional who's shared the
stage with Vanessa Redgrave and is on a first name basis with Mark
Rylance bows before you...
(He's apologizing for sitting in my chair)
[♥Dr.Paul]
Polarity:  0.217
Subjectivity:  0.211


Score: 44
Our acting prof just emailed us "The Seagull" in its original Russian
for "future reference."
Theater Studies...Wellesley style
Polarity:  0.094
Subjectivity:  0.219


Score: 31
Taught a ballet/jazz conditioning class today for AscenDance and got a
"Your class was really fun!" from one of my dancers...
Polarity:  0.375
Subjectivity:  0.2
```

4. Reflection: from a process point of view, what went well? what could you improve? Was your project appropriately scoped? Did you have a good plan for unit testing?

My approach on this projects has been to "write a line, check a line". I separated out the different goals of the code, making sure each part worked before connecting it to another working part. I used hard coding inputs often and ran the code everytime a new element was added. This has helped me focus and organize my code in a very manageable way. On the other hand, it cost me a lot of time. In terms of writing code from scratch, I don't know if I could change my approach to save time. I'm currently quite willing to be patient with my work than to risk getting overwhelmed debugging multiple lines at once.