

### Part 3: Project Writeup / Reflection

Please prepare a short document with the following sections:

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

I was trying to count how many times appears the name of each character of the book David Copperfield, to see how relevant are those characters in the story.

I did it well, but many times the characters are called in the book with nicknames so it is no really precise.

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?

The code work ok, but it is the simplest thing ever. I tried first to use a google api, but I realize that I needed to pay. Then a twitter api, but I could not figure out how to do what I wanted. And last of all I worked with the Project Gutenberg web page. I don't know why, but pattern in my computer is not working.

First of all, I defined a function called 'analyze' to count how many times a specific word is called in the text. For this I used a 'for' then an 'if' inside it to make a loop until the text was completely analyzed.

To count each word separately I used the 'string.split' function, and to enter the name you want I used a 'raw\_input'.

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

When you run this program, it shows the list of all characters of the book and below that list it says 'Enter name:', so you can choose a name from the list above to see how many times that name appears in the book.

For example, if you write Agnes, the program print 186.

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?

I was kind of confused on what we needed to do in this homework, so I changed my idea many times. Despite of all the time that I spent on the homework, I didn't learned how to use pattern and apis properly. (Pattern does not work on my computer, so it was impossible to learn it)

My program can be improved in many ways. One way that I thought, was to add a short description for each character. I found an URL with short descriptions, but I couldn't use it.