

## Task 1

Task 1 is the task that will be accomplished in this program. The question to answer using this program would be “How many Motor Vehicle Collisions Crashes happened in the location of zip code 11214?” The dataset that would be used in this case would be “Motor\_Vehicle\_Collisions\_-\_Crashes.csv” which is downloaded from NYC Open Data. After running the program and input the string “11214” correctly, the output should be 509.

The first step that I did was to find a CSV file with data that I can come up with a question and after parsing it, it should output the answer for the question. After selecting the dataset from NYC Open Data, I wrote the program that can parse that CSV file and find the number of occurrences of the inputted string, and output the number that it appears on the file. After testing it several times with the correct input and output, I transferred the files to GitHub and tried to run the program in Linux. The first step is to upload the files to Github, then clone the entire repository into the Linux server. On the Linux server, compile the java program that I’ve just downloaded and run it. With the correct input of “11214”, it should output the number “509”, which answers the question of How many Motor Vehicle Collisions Crashes happened in the location of zip code 11214 and the answer would be 509 crashes. Not only does this program answer this question, but it can also answer many questions by searching the number of occurrence of a specific string in the file, such as how many crashes in Manhattan or how many crashes in the Bronx, just input the string “Manhattan” or “Bronx”, it would output the number of crashes in that specific borough.

Below is the log, for detailed log, check session.log:

```
342 ls
343 git --help
344 git clone CISC-3140---Lab-5
345 ls
346 git clone https://github.com/victorliangzheng88/CISC-3140---Lab-5
347 ls
348 cd CISC-3140---Lab-5
349 ls
350 javac Counter.java
351 java Counter
```

After the command line of java Counter, the user should input the file name, which is Motor\_Vehicle\_Collisions\_-\_Crashes.csv, and the string he wanted to search for. Example output:

```
Please enter the filename:
Motor_Vehicle_Collisions_-_Crashes.csv
Please enter a word:
11214
```

The word 11214 appears 509 times.