Youness Elwiddi – Lab Reflection – CISC 3160

* Which programming languages did you use for each of these problems?
* Why did you choose a particular language? (There is no right or wrong answer here, choosing an implementation is an art form)
* Was there any difficult or easy about using that language for solving the problem?
* If you had to solve the problem again, would you choose a different language?

The programming languages I picked for the tasks are Python, Java, and C++. For the Math task I was given, I felt like any imperative language would have been fine. I could have done this program in C, but I did it in C++ because I felt like there would be no difference in syntax. I probably could have done this program in a function programming paradigm as well, but I’m not familiar with them so I did it in a C language.

For my sorting csv task, I chose Java. This was the toughest choice for me, because I felt like a declarative language like SQL would have been better, but I’m not sure how to read in a csv file into SQL to be sorted. I also ran into the most trouble with this program because I had to figure out how to manipulate the data being read in, so that only two columns would be selected. I felt like SQL would have made this easier to work with, if I knew how to read in the data.

For the API task, I chose Python. This was pretty easy to do, all I had to do was import an API requester package that’s included with Python. I simply requested the data by inserting the api link into a variable, then calling it. I probably could have sorted the data using SQL, but I wasn’t entirely sure how to do that.