Shunbo's 2AA4 learning log

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Jan 13, 2019

In the first week of the winter semester I learned some basic knowledge about more useful software. In the tutorial there was a detailed and clear demonstration about the installation of LaTeX. This is a powerful document preparation system for automatically formatting the articles, which can make them organized and stable. In my future work I believe it will be widely used in my reports and resume.

We also went through some commands of git in the tutorial. It is a version control tool like SVN I used in the last semester. By committing and rushing I can update and save the changes on files to the gitlab.

In the assignment I worked on how to read data from files with python. The main idea is use the function readlines and save the data in each line in a dictionary. I also need to sort the dictionaries according to the value of gpa.

Jan 20, 2019

In this week I mainly added more details to the assignment. For test cases I found it actually hard to cover all the possible cases. It was easier to test the average calculation and the sorting function. I needed to test cases for both gender, and the empty student set. However for the allocating function there are more possible cases. The number of students with free choice can exceed the limit of department capacity, and so as the normal students. When the capacity is full I have to consider their second choice. So the function needs to work in different conditions.

Jan 27, 2019

I got the partner file and tested it with my test driver in assignment 1 this week. As I said in my report, many of my tests did not pass for the partner;s functions. The main reason is the style of the code. The code is general and correct, but some difference in detail may cause the fail in test. We also covered some relations between discrete math and software language, such as the use of logic symbols.