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**Experiment 1:**

**Using Software Tools and Code Versioning System**

CPE106L (Software Design Laboratory)

**Member 1 (FirstName M.I. LastName)**

**Member 2 (FirstName M.I. LastName)**

**Member 3 (FirstName M.I. LastName)**

Group No.: **1**

Section: **E01**

## **PreLab**



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| **Readings, Insights, and Reflection**  [[**What to Include?**  Readings include: METIS books, pertinent websites. Provide below your Insights and Reflection.] |
| ***<Insights and Reflections here…>***  Example Readings, Insights, and Reflection  **Professional Git**  **9781119285007**  With the introduction to GitHub, we were able to learn new things. First, we were  able to assign ourselves with the help of the gear icon as stated in the step 1 of the  course. We also learned how to turn on pages in GitHub which was easy as it only  needed a few alterations in the Settings Tab. Third, we learned how to close an issue  which only involve the clicking of the “Close Issue” Button.  **Fundamentals of Python: Data Structures , 2nd Edition**  **9780357122754**  We also learned how to create branches in GitHub by navigating through the  Code Tab and selecting the main option under the branch drop-down, and then  entering our chosen branch name before clicking the Create Branch button. After  selecting the newly created branch, we learned how to commit a file which involved  basic steps like creating the file name and adding its contents like how it is done in  other programming applications. After committing a message, we were able to commit  the new file with the help of the buttons provided. We were also able to open a pull  request which is a proposal and request for individuals to review your work and merge  it with their branch. With this, the difference in branches scan be seen. This is done by  clicking the “New pull request Tab” and selecting the appropriate branches for the base  and the compare, and then adding a title before finally clicking the “Create pull request”.  We were also learned how to respond to a review by selecting the “Files Changed” tab  and replacing the codes before committing the changes. Lastly, we learned how to  merge one’s pull request which was done by simply pressing the “Confirm merge”  button. Once this is done, the branch one has created earlier is no longer necessary as  the changes have already been merged, and the individual can now delete his/her  branch by simply pressing the “Delete branch” button.  **Git, Anaconda and Visual Studio Code**  We also learned how to create branches in GitHub by navigating through the  Code Tab and selecting the main option under the branch drop-down, and then  entering our chosen branch name before clicking the Create Branch button. After  selecting the newly created branch, we learned how to commit a file which involved  basic steps like creating the file name and adding its contents like how it is done in  other programming applications. After  Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.  Curabitur pretium tincidunt lacus. Nulla gravida orci a odio. Nullam varius, turpis et commodo pharetra, est eros bibendum elit, nec luctus magna felis sollicitudin mauris. Integer in mauris eu nibh euismod gravida. Duis ac tellus et risus vulputate vehicula. Donec lobortis risus a elit. Etiam tempor. Ut ullamcorper, ligula eu tempor congue, eros est euismod turpis, id tincidunt sapien risus a quam. Maecenas fermentum consequat mi. Donec fermentum. Pellentesque malesuada nulla a mi. Duis sapien sem, aliquet nec, commodo eget, consequat quis, neque. Aliquam faucibus, elit ut dictum aliquet, felis nisl adipiscing sapien, sed malesuada diam lacus eget erat. Cras mollis scelerisque nunc. Nullam arcu. Aliquam consequat. Curabitur augue lorem, dapibus quis, laoreet et, pretium ac, nisi. Aenean magna nisl, mollis quis, molestie eu, feugiat in, orci. In hac habitasse platea dictumst. |

## **InLab**



[**What to Include?]**

* **Objectives** (See Lab guide).

1. Objective 1
2. Objective 2

* **Tools Used** 
  + Anaconda
  + Git Terminal
* **Procedure.** Steps Performed with edited screenshots of tools used (Example: Using Anaconda, sample run, debugging with **DISCUSSIONS** (DON’T copy and paste from the ebook)**.** Use the source in the Lab Guide. You may include source codes of Roth. **IMPORTANT**: Figure numbers and labels. Mention the figure in your discussion.

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| <Discussion placeholder>  Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.  Figure 1. Using conda command to display created environments. There are seven conda environments.  Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.  Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. |

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## **PostLab**



[**What to Include?]**

**Programming Problems** (Leaders will assign each member to work on)

Includes edited screenshots of tools used (Using Anaconda, Git Terminal, and Visual Studio Code sample run, debugging with **DISCUSSIONS** (DON’T copy and paste from the ebook)**.** Use the source in the Lab Guide. You may include source codes of Roth. **IMPORTANT**: Figure numbers and labels. Mention the figure in your discussion.

***<Discussions here…>***

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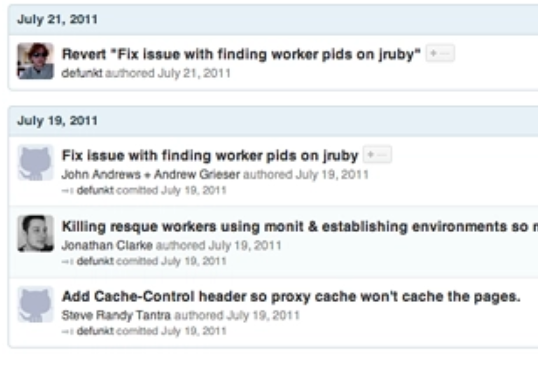


Figure 2. Adding commit message.

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