**CSIS210 - Data Structures**

Software Engineering

### Laboratory 9

**Lab 1**

# Names \_\_\_\_\_\_\_\_\_\_Omega Tech\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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# General Lab Procedures

* Lab activities can be individual-based, pair-based, or team-based, according to the exercises.
* Files needed in the lab can be found on the course website.
* Turn in this lab sheet stapled to print outs of the code you produce in each assigned section from the laboratory manual. These sheets should be in order. **One lab submission is sufficient for each group**.

**Lab Objectives**

* Observe User Interfaces in the Real World

## Lab 9

#### Part 1 – Tour of Roger Bacon

In this part of the lab, you will observe various real world user interfaces.

* After the tour, list ten (10) user interfaces that were described during the presentation or walking tour. With each interface, describe any natural or common-sense assumptions made.

1. **Water Fountain third floor- pressed the button and water came out.**
2. **Water Fountain second floor- Pressed the bar and water came out.**
3. **Library TV- Pressed the power button on the button right side of the TV where the small red light was, but it was not there.**
4. **Lounge TV- Pressed the power button on the button right side and it was there.**
5. **Microwave- Popcorn button cooks the popcorn correctly**
6. **Exit sign on the stairwell- Tried to climb out the open where the exit sign was, but it was a closed window with no access.**
7. **Orange garbage can- You can throw any garbage into it.**
8. **Blue garbage can- only can throw recyclable stuff**
9. **Bread Boards cabinet- Need a key to open the cabinet**
10. **Door to 328- Push the door handle down and push to open it**

#### Part 2 – Introduction to GitHub

In this part of the lab, you will investigate the concept of version control using GitHub.

* Open a browser on your PC and navigate to <https://github.com/>.
* Create an account on GitHub and choose a free plan.
* At the main page, **Set up Git** by clicking on the appropriate box and following the instructions.
  + Download and install the latest version of GitHub for Windows.
    - Click on the **Install** button on the popup that appears.
  + Open the Git Shell application
    - It should appear within the Start Menu list of programs under the **GitHub, Inc** folder.
* Tell Git your name so your commits will be properly labeled. Type everything after the $ here:

git config --global user.name "YOUR NAME"

* Tell Git the email address that will be associated with your Git commits. The email you specify should be the same one found in your [email settings](https://help.github.com/articles/adding-an-email-address-to-your-github-account/). To keep your email address hidden, see "[Keeping your email address private](https://help.github.com/articles/keeping-your-email-address-private)".

git config --global user.email "YOUR EMAIL ADDRESS"

* Run GitHub, and authenticate with your account information.
* Create a repository called **Lab9** using the instructions at https://help.github.com/articles/create-a-repo/. Make Lab 9 be a public repository.
* Follow the instructions on **Commit your first change** on the same page.

