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**Experiment 1:**

**Using Software Tools and Code Versioning System**

CPE106L (Software Design Laboratory)

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Group No.: **6**

Section: **B2**

## **PreLab**



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| **Readings, Insights, and Reflection** |
| **Professional Git**  **9781119285007**  Alipio, Sarmiento, Macaro  According to Chapter 1 of the book Professional Git, GitHub is transforming current programming development by streamlining version control and fostering better teamwork. Additionally, we discovered that it offers a user-friendly interface for quick performance and smooth branching. Teams may also assign projects, maintain sites, and handle problems more easily with its assistance. When used with Git, it increases adaptability control and promotes international cooperation across borders. Comprehending GitHub's crucial function is imperative in enhancing development procedures and realizing the full potential of collaborative efforts.  **Fundamentals of Python: Data Structures , 2nd Edition**  **9780357122754**  Alipio, Sarmiento, Macaro  We learned more about Python programming to utilize in the lab code by reading Foundations of Python Programming, Chapter 1. It demonstrates the fundamentals of Python programming, including modules, structure, and a few sample programs. It addresses lexical components, syntactic elements, and comments. In order to encourage greater interaction and learning from our experience, it presents data types and built-in modules (dictionaries, lists, etc.) with real-world examples. It keeps at a respectable pace for us as it analyzes document roles, control stream explanations, string control, capability definitions, and class development.  **Git, Anaconda and Visual Studio Code**  Alipio, Sarmiento, Macaro Based on the resources provided, we've gained valuable insights into optimizing Python package usage with Anaconda and mastering version control using GitHub. Anaconda serves as a versatile toolkit, simplifying package installation, dependency management, and virtual environment setup. Understanding its installation process and important considerations like environment variables has laid a strong foundation for efficient coding practices. Meanwhile, GitHub emerges as a pivotal platform for version control and collaborative development, offering hands-on exercises in repository management, branches, commits, and pull requests. Learning to navigate GitHub's workflow has enhanced our journey through courses like CPE106L, fostering successful coding practices and collaborative endeavors. Additionally, Git tutorials have shed light on creating repositories, sharing, and cloning them, while Anaconda tutorials have delved into installation procedures and essential concepts, enriching our learning experience in both tools. |