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**Experiment 7:**

CPE106L (Software Design Laboratory)

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Group No.: **6**

Section: **B2**

## **PreLab**



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| **Readings, Insights, and Reflection**  **Webscraping Handout**  Alipio, Sarmiento, Macaro  The Web Scraping handout showed us how to take information from HTML pages on the internet and put it into files like CSV, which we can use in Excel. We also learned about two Python tools, urllib and Beautifulsoup, that help with web scraping. Plus, the handout talked about Regular Expressions. These are patterns that help find specific words or phrases in text. There are five rules for Regular Expressions when looking for email addresses. The first rule says that email addresses need to have letters, numbers, periods, plus signs, or underscores before the "@" symbol. The second rule is just the "@" symbol. The third rule says email addresses need to have at least one letter. The fourth rule says there has to be a period to separate the username from the domain name. The fifth rule says the domain must end with a common ending like "com," "org," "edu," or "net," but it can be other endings too.  **Matplotlib Handout**  Alipio, Sarmiento, Macaro  The next handout was about making graphs with Matplotlib, helping us understand how to use it better. It explained things clearly and showed us examples of how to make different types of graphs. We also learned how to change things like colors and styles to make our graphs look the way we want. This came in handy when we were doing our Data Science Programming Exercises, giving us more practice with making graphs.  **Application Programing Interface Handout**  Alipio, Sarmiento, Macaro  This handout explained what APIs are in a clear and detailed way. It focused on web APIs, which are important for programs to interact with internet resources. It also talked about why APIs are essential and how they're used, especially for managing big data sets and accessing real-time data. The handout also covered key terms like HTTP, URL, JSON, and REST to help us understand APIs better. Overall, it gave us a good understanding of APIs and how they're used in software development. |