

# ASE 285 Homework 1

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- 50 points in total
- Use the `Last-First-HW#` directory as a template directory. Copy all your results in the results directory (create sub-directories if necessary) and complete (mark and grade) the grading.docx in the directory.
- Change the directory name; for example, **Cho-Samuel-HW#** is the directory name if I submit the homework (# should be replaced with the HW number). Notice that last name comes first.
- Zip the directory to make a zip file, for example, **Cho-Samuel-HW#.zip** (# should be replaced with the HW number), to submit them on Canvas.

Also, notice the following:

- You should **make the installation documentation page in the Notion app** for your future use.
  - You can make a markdown file and store the file in the Notion app.
- You should use Notion as a **personal and team documentation tool** in this course.

## Register and Login (10 points)

- Register [Notion](#) with your nku.edu email.
  - Make sure you get Personal Pro Plan (Educational) free.
  - Join the shared page from me.
- Register [Slack](#).
  - Join **nku-ase-285**
- Register [GitHub](#) with your nku.edu email.
  - Sign up for [Student Developer Pack](#) to [join](#).
- Register JetBrains with your nku.edu email.
  - Make sure to request and get a license
  - Download and install JetBrains Toolbox
- Register [MongoDB Atlas](#)

## Install Command Line Interface (CLI) Tools (10 points)

- All ASE students should be able to use CLI tools on Windows/Unix operating systems.

### PC Users

- Install [Chocolatey](#)
  - You should use Windows Powershell with Administration Priviledge
- Install [WSL2](#) and [Ubuntu](#) or the latest Ubuntu LTS distribution.
  - If necessary, Google to find more information, including [this one](#).
- Install [Windows Terminal](#).

### Mac Users

- Install [Homebrew](#).

## Linux Users

- Make sure you use Ubuntu distribution. Check what version you use.
- Make sure you know how to use the `apt` tool.

## File format (10 points)

### Markdown

- Visit this site <https://markdown-it.github.io>
  - Explore the markdown language features. Use [this page](#) if necessary.
  - Copy the README.md in the reference directory to check the output.
  - Make an example markdown file (example.md) for your future reference.
    - Copy the markdown file on your Notion page for later use.
- Make the `ase-courses-yourname.md` file (yourname should be replaced with your name) that contains the following information.
  - The courses name you should attend to graduate from NKU
  - The course number
  - The flag (T/F) that you attend this course or not
  - The year and semester if you already attended the course
  - The name of the professor who taught the class

### XML

- Convert the `ase-courses-yourname.md` to XML format. Use the same file format.

### YAML

- Convert the `ase-courses-yourname.md` to YAML format. Use the same file format.

### JSON

- Convert the `ase-courses-yourname.md` to JSON format. Use the same file format.

## Install SE Tools (10 points)

### Visual Studio Code (VSC)

- Download and install VSC.
- Install the following extensions.
  - Quokka
  - Live Server
  - Code Runner
  - JavaScript (ES6) code snippets
  - Markdown PDF
  - GitLens
  - XML

- Markdown All in One

## CLI tools

CLI tools are keep changing, so if you find anything wrong or not working, please contact the instructor.

- Package Information
  - Windows: <https://community.chocolatey.org/packages>
  - Mac: <https://formulae.brew.sh>
  - Ubuntu: <https://packages.ubuntu.com>
- Install Node.js
  - Windows: `choco install nodejs` then `refreshenv`
  - Mac: `brew install nodejs`
  - Ubuntu: `sudo apt-get install nodejs`
- Install MongoDB
  - Windows: `choco install mongodb-shell` then `refreshenv`
  - Mac: `brew install mongosh`
  - Ubuntu: `sudo apt-get install mongosh`
- Install diff/merge tool.
  - Windows: `choco install diffmerge` then `refreshenv`
  - Mac: Use FileMerge that is already installed on Mac.
  - Ubuntu: `sudo apt-get install meld`

## Make Notion Page and convert it to PDF (10 points)

- Make a Notion Page (SE Tools Install) or multiple Notion pages if necessary.
  - Use the page to record all the installation related information for your future use
  - It is OK to make markdown files and upload them to the Notion page. In this case, submit all the markdown files.
  - Make the pages for your future use; you can use them for your future team members or future setup of your computer systems. Make them for future you, not for me.
- Use the Notion's Export PDF feature to make PDF files and submit them.