Lab 3

AutoGen Workbench

Instructions:

1. Complete the tasks and steps listed under the Requirements section below.
2. Participate in the Lab Discussions on Canvas/Module 4

Requirements:

1. Install Python 3.10 from this URL:
   - https://www.python.org/downloads/release/python-3100/

2. Install Jupyter notebook or VS Code from this URL:
   - https://code.visualstudio.com/download
   - https://jupyter.org/install

3. Check python versions installed on your computer and verify that you have Python 3.10 installed by executing from the terminal/window the command:
   - py –list

4. Create python 3.10 virtual environment by executing the following commands from the terminal/window:
   - py -3.10 -m pip install virtualenv
   - py -3.10 -m virtualenv venv-autogen
   - venv-autogen\Scripts\activate

5. From venv terminal/window, execute the following commands to install pyautogen:
   - pip install uv
   - uv pip install pyautogen
   - uv pip install yfinance

6. Use your personal email account to create a login and API KEY for OpenAI gtp-4o-mini from this URL:
   - https://platform.openai.com/api-keys

7. Set up your environment variables for OpenAI Key
   - set OPENAI_API_KEY=ADD_YOUR_OPENAI_API_KEY_HERE

8. Download and run the following IPYNB scripts from GitHub
   - https://github.com/ag2ai/ag2/blob/main/notebook/agent chat_nested_sequential_chats.ipynb

9. Download and run the following IPYNB scripts from GitHub
   - https://github.com/ag2ai/ag2/blob/main/notebook/agent chat_nestedchat.ipynb