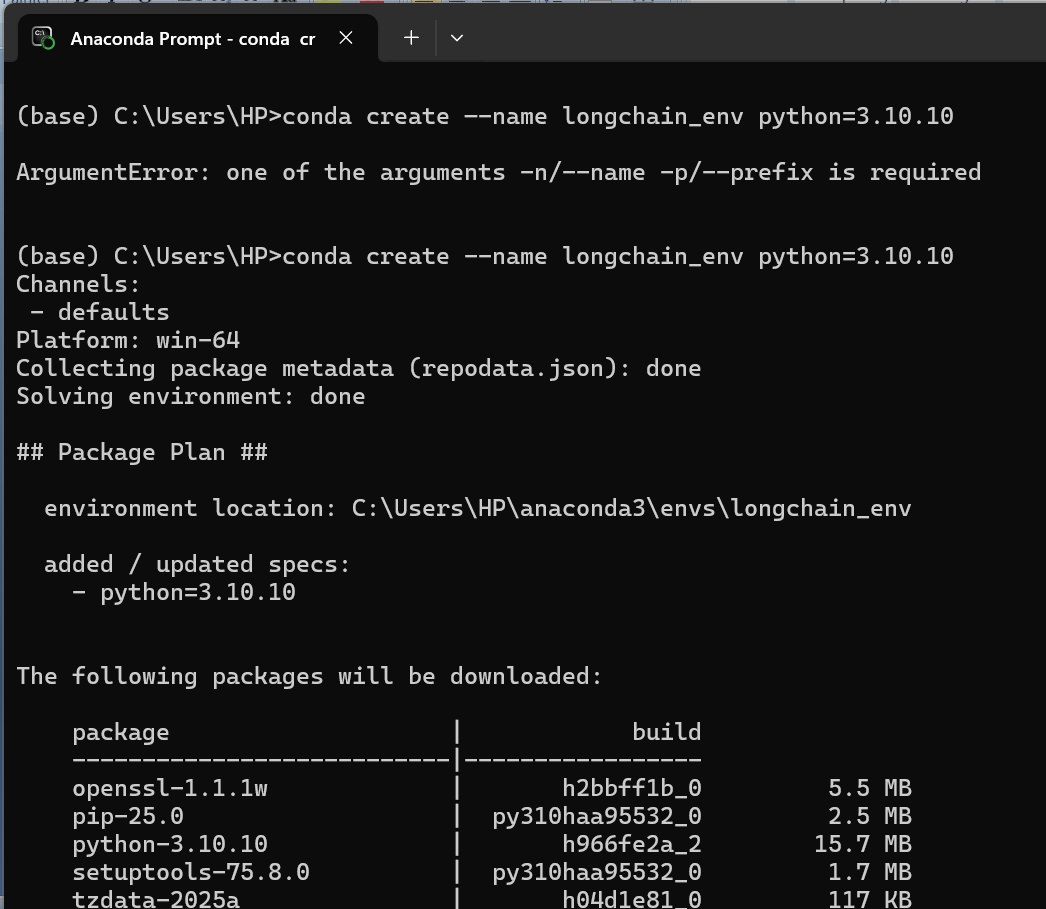
LLM

1. Setting up custom anaconda environment for jupyter integration: Isolates different Python and package versions, avoiding potential version clashes, protests the rest of your work, ensures you can always revert to the base environment.
2. From anaconda prompt create a new environment by typing

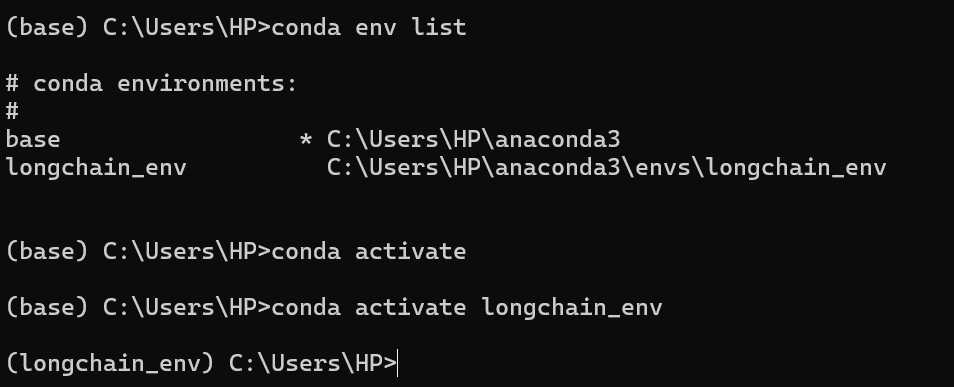
(base) C:\Users\HP> conda create --name longchain\_env python=3.10.10



1. To check conda environment:

(base) C:\Users\HP> conda env list

1. To activate environment:



(base) C:\Users\HP> conda activate longchain\_env

1. Check python version:

(longchain\_env) C:\Users\HP>python -V (capital V)

1. Install following libraries:

(longchain\_env) C:\Users\HP>pip install openai python-dotenv ipykernel jupyterlab notebook

OR

(longchain\_env) C:\Users\HP>pip install openai

(longchain\_env) C:\Users\HP>pip install python-dotenv

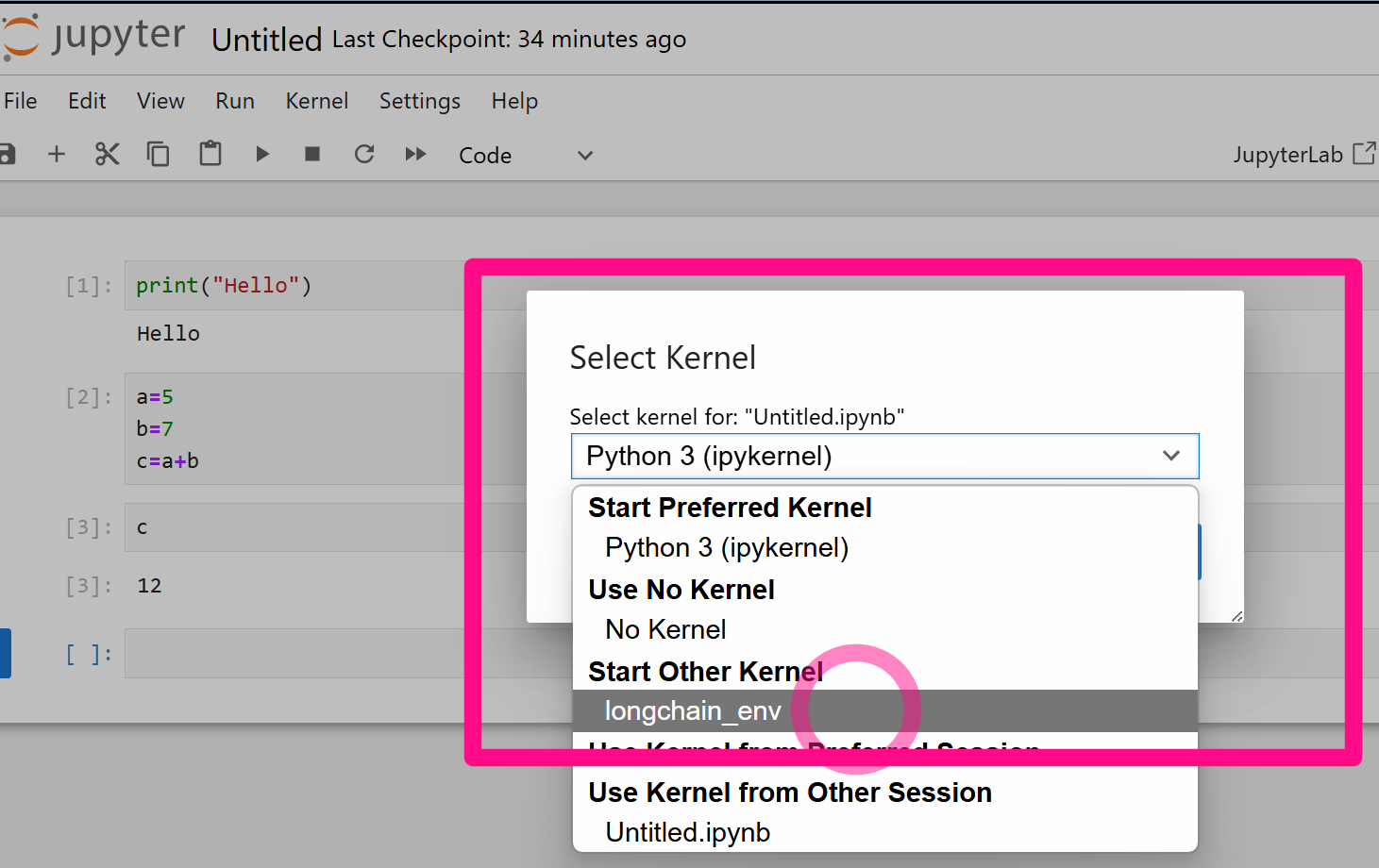
(longchain\_env) C:\Users\HP>pip install ipykernel

(longchain\_env) C:\Users\HP>pip install jupyterlab notebook

1. Lets add it to the list of Jupyter Notebook:

(longchain\_env) C:\Users\HP>python -m ipykernel install --user --name longchain\_env

1. Now open the Jupyter Notebook: Check if the new kernel has appeared on the list:



1. Obtaining an OpenAI API Key: <https://platform.openai.com/login>

For Payment: <https://platform.openai.com/settings/organization/billing/overview>

* Using OpenAI's models is a paid service and you'll be charged based on your token consumption.
* Once you've completed that step, navigate to the menu and select API keys.
* As an owner of this organization, you can view and manage all API keys in this organization.
* Do not share your API key with others or expose it in the browser or other client-side code.
* To protect your account's security, OpenAI may automatically disable any API key that has leaked publicly.
* Create new project: <https://platform.openai.com/settings/organization/api-keys>

sk-proj-lgoNx762lQAC0eyvfcu0uObSssg1SJzkUApE52fKj0OySdXD84qOrYNPfbNi1JMyw71wlNl41JT3BlbkFJqBUaR0BWKWnIhf\_jkxFl2BzN50oOTzwTmzJqMneTI-BRl79vs42ReoR1qFyl4l2bGaipTjKuYA

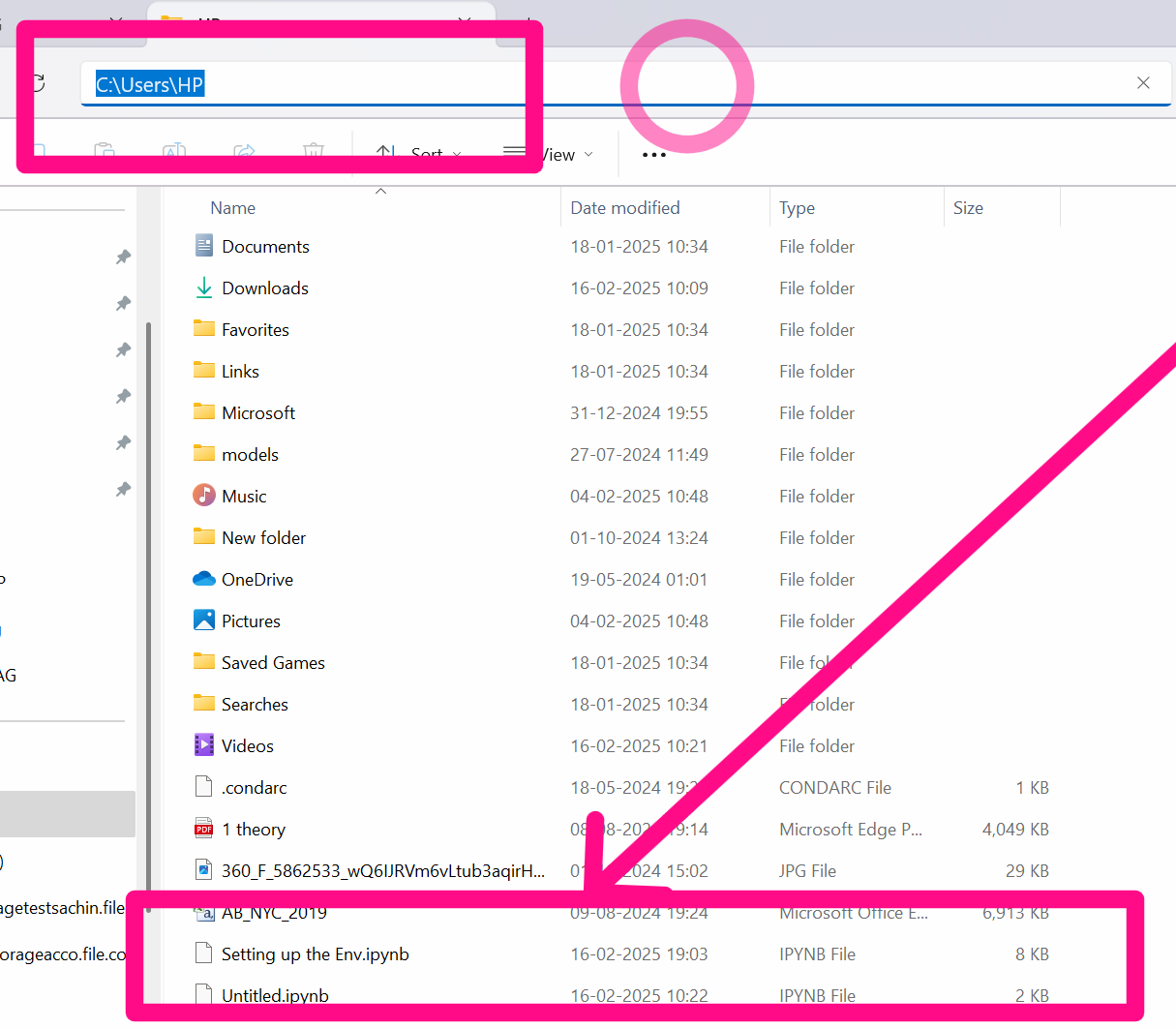
1. Create a text file in C:\Users\HP location

And paste:

**OPENAI\_API\_KEY="sk-proj-8PzAZ3uzVA5pGgYKbgioU8OM9ulftp7gXce2kRT\_JoXEsYAHgFseNjDu2asvRoLM439K7aSBUST3BlbkFJJuNG9TJpxbphFvtg9juarQ4a24n\_YUnIq4txMZMjcEUdoIGboe6STnXSXhHIrjA5YL2mtZfEQA"**

Above OpenAI API Key which is pasted in text file must be in a same folder as Notebook location in C Drive.

1. Save this text file as “config.py” and then I'll store this API key and paste the secret key you got from the OpenAI website. In config.py file in our notebook, we can then import the OpenAI package and the config package. We create our API key and then we can reference our config file.

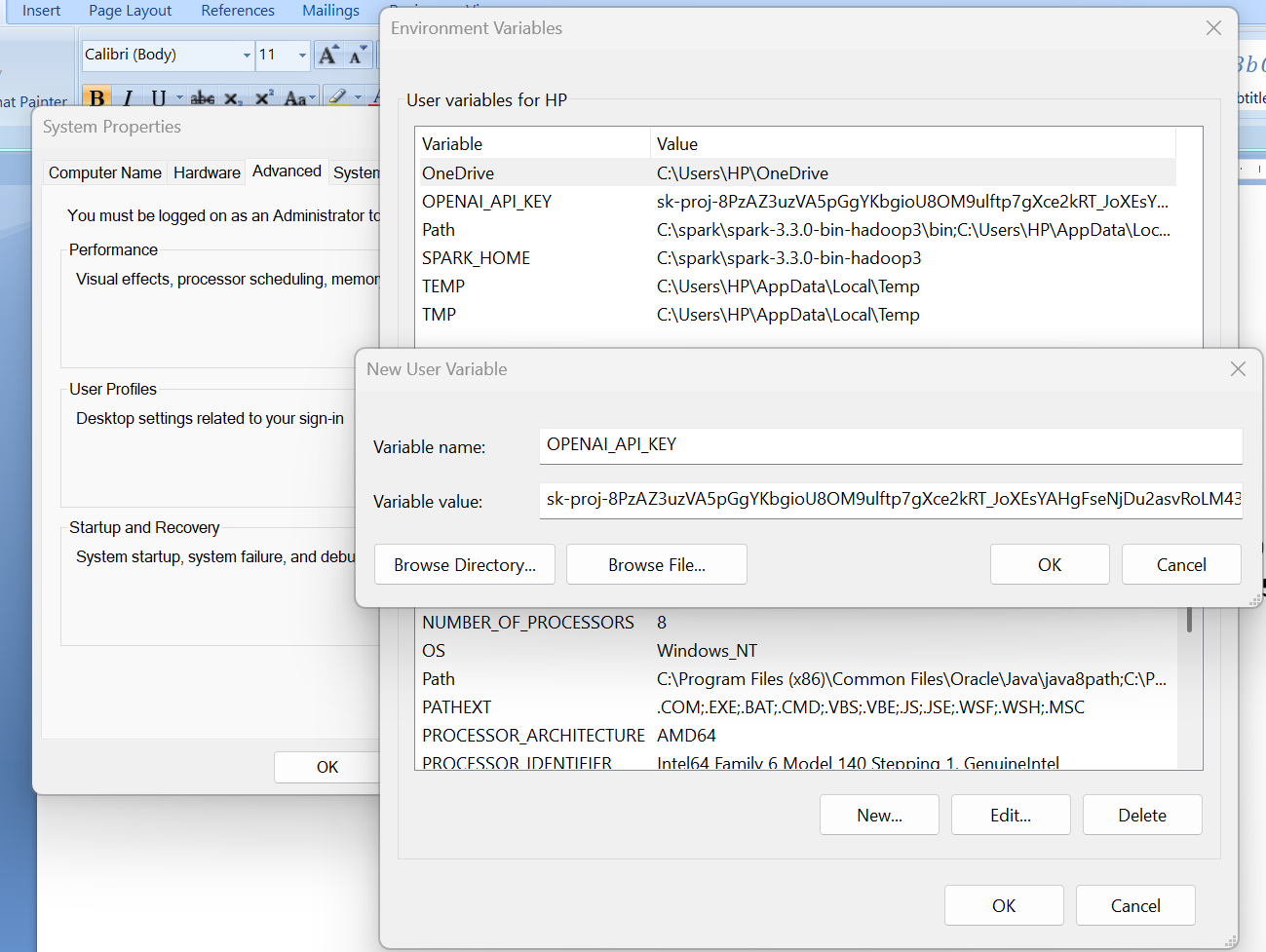


* Save the file, close it and rename it dot env. Now let's use Ipython's magic commands to load the environment variable stored in the text file.
* Restart the kernel in Jupyter Notebook.
* Setting up the Open Key through Environment VariableKey

1. Search “Edit the system environment variables” in “Search” bar:
2. Then, “Advance”-> “Environment Variables”-> “New”->

**Variable name: OPENAI\_API\_KEY**

**Variable value: sk-proj-8PzAZ3uzVSXhHIrjA5YL2mtZfEQA"**



1. For environment variable, in command prompt run:

>echo %OPENAI\_API\_KEY%