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ASSIGNMENT - 1

Q: Installation of Jupyter Notebook and load text datasets of different resources.

A: To install Jupyter Notebook, follow these steps:

Step 1: Install Python

Make sure you have Python installed. You can download the latest version of Python from the [official website](#). During installation, ensure that you check the option to add Python to your system PATH.

Step 2: Install pip (if not already installed)

pip is Python's package manager and usually comes with Python. To verify it's installed, open a terminal (Command Prompt, PowerShell, or terminal on Mac/Linux) and type:

```
bash
```

```
pip --version
```

Step 3: Install Jupyter Notebook

You can install Jupyter Notebook using pip. In your terminal, type:

```
bash
```

```
pip install notebook
```

This command will download and install the necessary packages.

Step 4: Start Jupyter Notebook

After installation, you can start Jupyter Notebook by typing the following command in your terminal:

```
bash
```

```
jupyter notebook
```

This command will open Jupyter Notebook in your default web browser. It runs on **localhost:8888** by default.

Step 5: Create and Save Notebooks

- You can create a new notebook by clicking on "New" and selecting "Python 3" (or whichever Python version you have installed).
- To save your notebook, click on "File" > "Save and Checkpoint".

Optional: Install Additional Packages

You may want to install additional packages for data science and machine learning, like NumPy, Pandas, Matplotlib, etc. You can install these via pip as well:

```
bash
```

[Copy code](#)

```
pip install numpy pandas matplotlib
```

Step 6: (Optional) Using Virtual Environments

It's a good practice to use a virtual environment to manage dependencies for your projects. To set up a virtual environment:

1. **Install virtualenv (if not already installed):**

```
bash
```

```
pip install virtualenv
```

2. Create a virtual environment:

```
bash
```

```
virtualenv myenv
```

3. Activate the virtual environment:

On Windows:

```
bash  
  
myenv\Scripts\activate
```

On Mac/Linux:

```
bash  
  
source myenv/bin/activate
```

4. Install Jupyter Notebook in the virtual environment:

```
bash  
  
pip install notebook
```

5. Start Jupyter Notebook:

```
bash  
  
jupyter notebook
```

Step 7: Stop Jupyter Notebook

To stop Jupyter Notebook, go back to the terminal where it's running and press Ctrl+C. This will shut down the Notebook server.