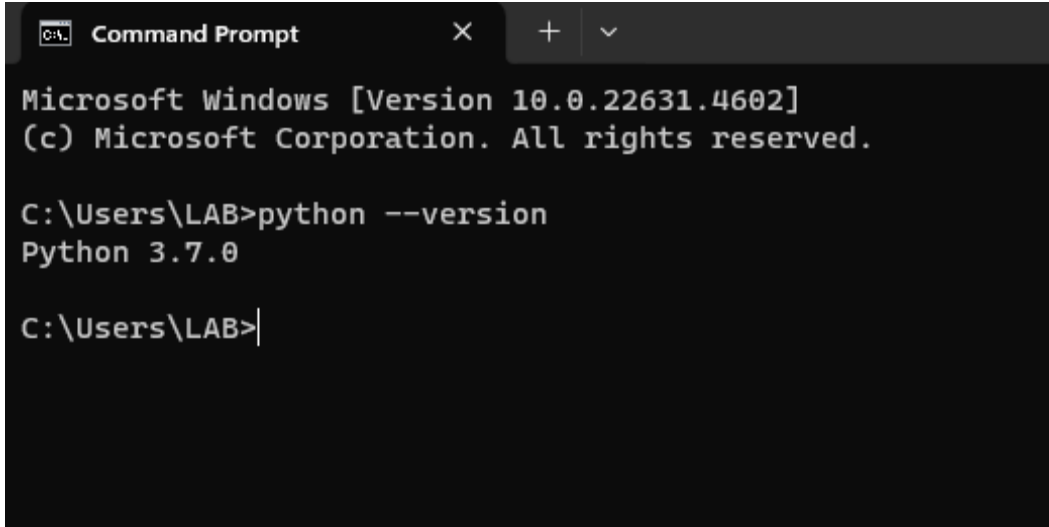


## Experiment-1

AIM: Implement and demonstrate the FIND – S algorithm for finding the most specific hypothesis based on a given set of training data samples. Read the training data from a .CSV file.

Open cmd:



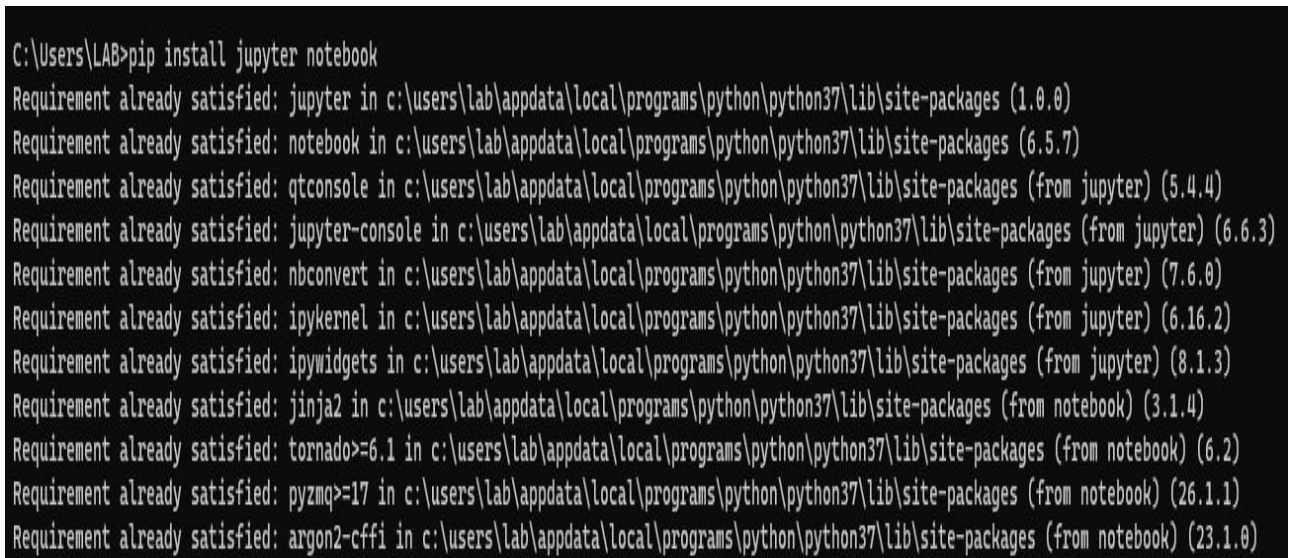
```
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\Users\LAB>python --version
Python 3.7.0

C:\Users\LAB>
```

Enter the following command:

➤ pip install jupyter notebook



```
C:\Users\LAB>pip install jupyter notebook
Requirement already satisfied: jupyter in c:\users\lab\appdata\local\programs\python\python37\lib\site-packages (1.0.0)
Requirement already satisfied: notebook in c:\users\lab\appdata\local\programs\python\python37\lib\site-packages (6.5.7)
Requirement already satisfied: qtconsole in c:\users\lab\appdata\local\programs\python\python37\lib\site-packages (from jupyter) (5.4.4)
Requirement already satisfied: jupyter-console in c:\users\lab\appdata\local\programs\python\python37\lib\site-packages (from jupyter) (6.6.3)
Requirement already satisfied: nbconvert in c:\users\lab\appdata\local\programs\python\python37\lib\site-packages (from jupyter) (7.6.0)
Requirement already satisfied: ipykernel in c:\users\lab\appdata\local\programs\python\python37\lib\site-packages (from jupyter) (6.16.2)
Requirement already satisfied: ipywidgets in c:\users\lab\appdata\local\programs\python\python37\lib\site-packages (from jupyter) (8.1.3)
Requirement already satisfied: Jinja2 in c:\users\lab\appdata\local\programs\python\python37\lib\site-packages (from notebook) (3.1.4)
Requirement already satisfied: tornado>=6.1 in c:\users\lab\appdata\local\programs\python\python37\lib\site-packages (from notebook) (6.2)
Requirement already satisfied: pyzmq>=17 in c:\users\lab\appdata\local\programs\python\python37\lib\site-packages (from notebook) (26.1.1)
Requirement already satisfied: argon2-cffi in c:\users\lab\appdata\local\programs\python\python37\lib\site-packages (from notebook) (23.1.0)
```

Enter the following command:


➤ python -m notebook

$$\begin{array}{ccccccc} \bar{1} & \bar{1} & \bar{1} & \bar{1} & \bar{1} & \bar{1} & \bar{1} \\ | & | & | & | & | & | & | \\ | & | & | & | & | & | & | \\ \backslash & \backslash & / & / & \backslash & \backslash & \backslash \end{array}$$


[https://jupyter-notebook.readthedocs.io/en/latest/migrate\\_to\\_notebook7.html](https://jupyter-notebook.readthedocs.io/en/latest/migrate_to_notebook7.html)

```
[I 10:21:52.490 NotebookApp] Serving notebooks from local directory: C:\Users\LAB
[I 10:21:52.490 NotebookApp] Jupyter Notebook 6.5.7 is running at:
[I 10:21:52.490 NotebookApp] http://localhost:8888/?token=280f777b4e22d879c776e9eb35d05f2c8a1c9a637a2b35cf
[I 10:21:52.491 NotebookApp] or http://127.0.0.1:8888/?token=280f777b4e22d879c776e9eb35d05f2c8a1c9a637a2b35cf
[I 10:21:52.491 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[C 10:21:52.544 NotebookApp]
```

To access the notebook, open this file in a browser:  
 file:///C:/Users/LAB/AppData/Roaming/jupyter/runtime/nbserver-3452-open.html  
 Or copy and paste one of these URLs:  
 http://localhost:8888/?token=280f777b4e22d879c776e9eb35d05f2c8a1c9a637a2b35cf  
 or http://127.0.0.1:8888/?token=280f777b4e22d879c776e9eb35d05f2c8a1c9a637a2b35cf



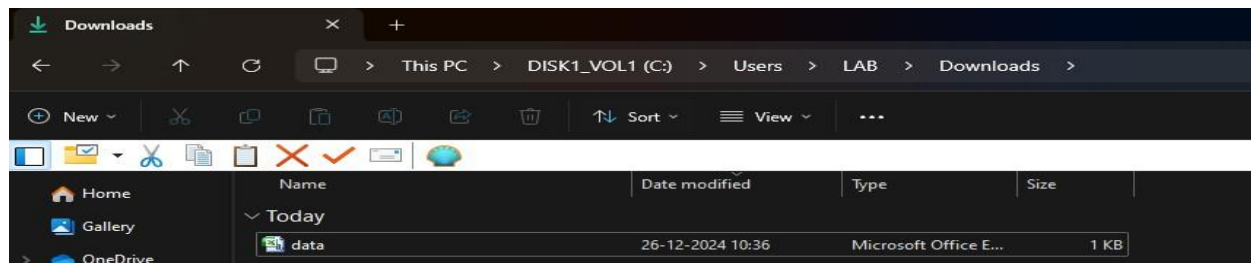
The screenshot shows the 'New' dropdown menu in JupyterLab. The menu is open, displaying options for creating new files and folders. The 'Notebook' section is selected, and 'Python 3 (ipykernel)' is highlighted. Other options include 'Text File', 'Folder', and 'Terminal'.



The screenshot shows the VS Code File Explorer on the left. The 'Terminal' option is highlighted in the context menu that appears when right-clicking on the 'src' folder. The context menu also includes options like 'New', 'Upload', 'Python 3 (ipykernel)', 'Console', 'New File', and 'New Folder'.

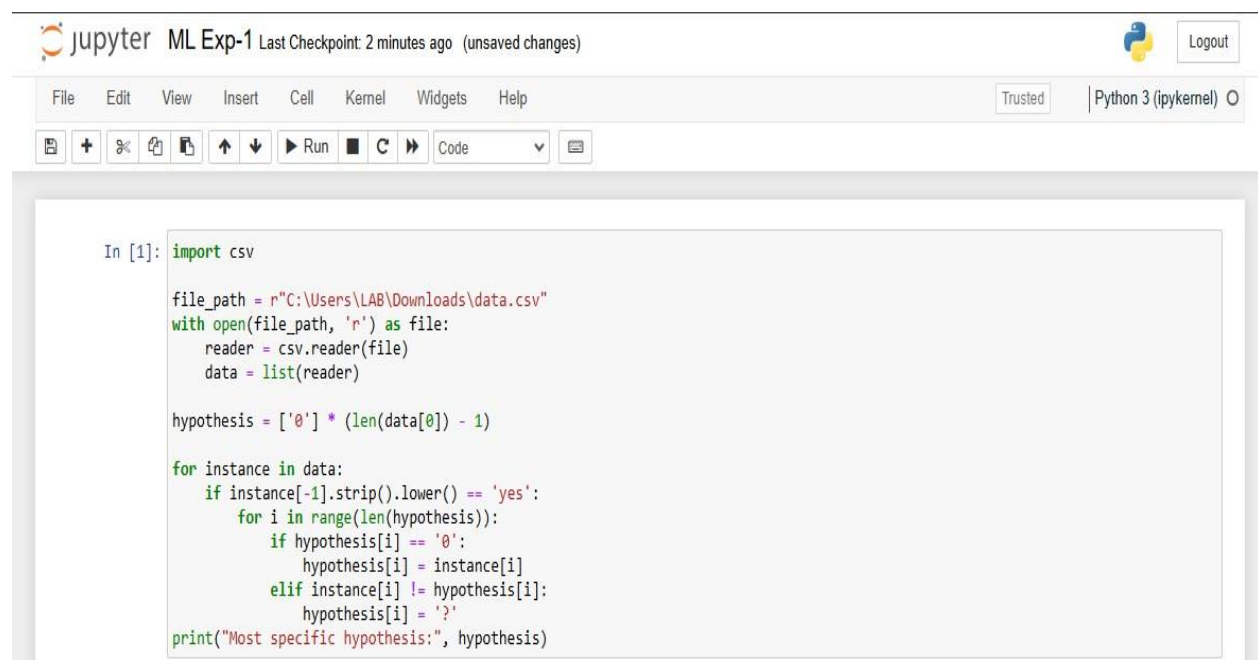
Download the dataset:

(copy data.csv file from user and paste it in your downloads)



Open the jupyter notebook file:

Write the following code:



To run code:

Click: (shift+enter)

To run code:

Click: (shift+enter)

Output:

