

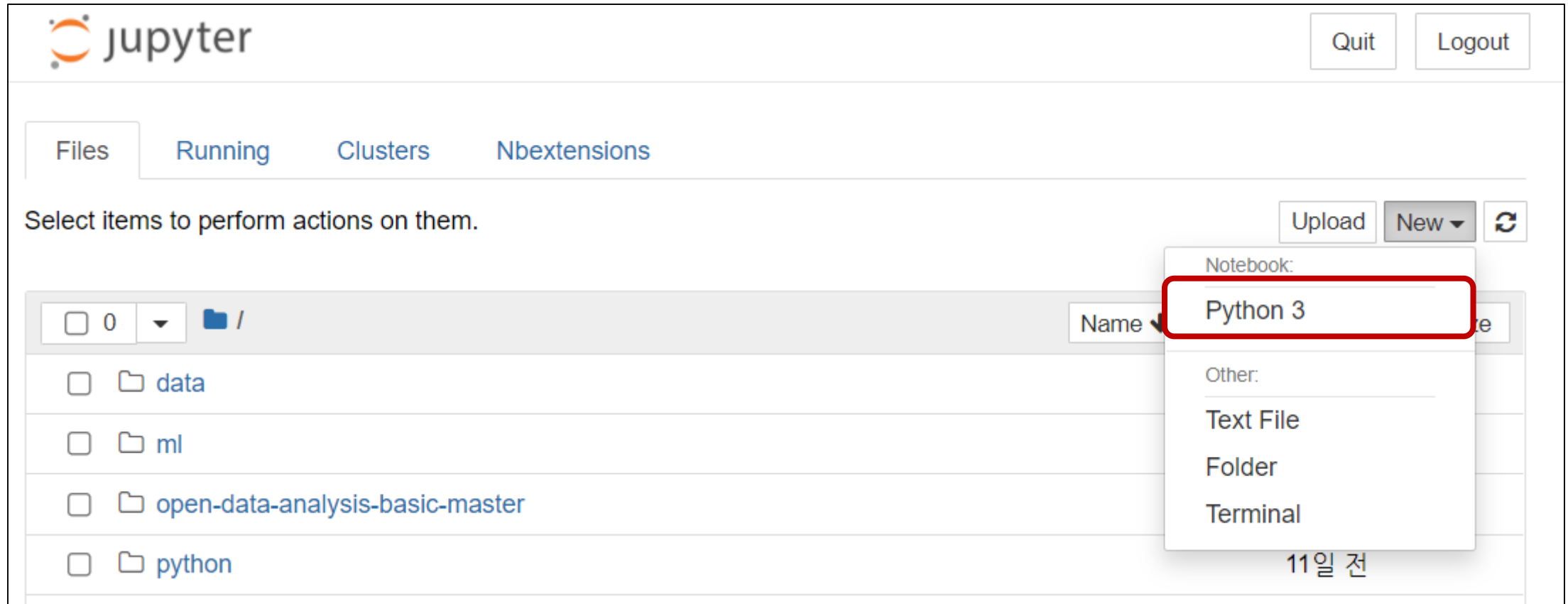
파이썬 데이터분석을 위한 준비

3) 주피터노트북 사용하기



Jupyter notebook 사용하기

새로운 파이썬 파일 생성하기



The image shows the JupyterLab web interface. At the top left is the Jupyter logo and the word "jupyter". At the top right are "Quit" and "Logout" buttons. Below the header is a navigation bar with tabs: "Files" (active), "Running", "Clusters", and "Nbextensions". Below the tabs is a message: "Select items to perform actions on them." To the right of this message are buttons for "Upload", "New" (with a dropdown arrow), and a refresh icon. A dropdown menu is open from the "New" button, showing two sections: "Notebook:" and "Other:". Under "Notebook:", "Python 3" is listed and highlighted with a red rectangle. Under "Other:", "Text File", "Folder", and "Terminal" are listed. Below the dropdown, the text "11일 전" is visible. The main file browser area shows a list of files and folders: a file named "0", a folder named "/", a folder named "data", a folder named "ml", a folder named "open-data-analysis-basic-master", and a folder named "python". Each item has a checkbox to its left.

jupyter

Quit Logout

Files Running Clusters Nbextensions

Select items to perform actions on them.

Upload New ↕

Notebook:

Python 3

Other:

Text File

Folder

Terminal

11일 전

0 /

data

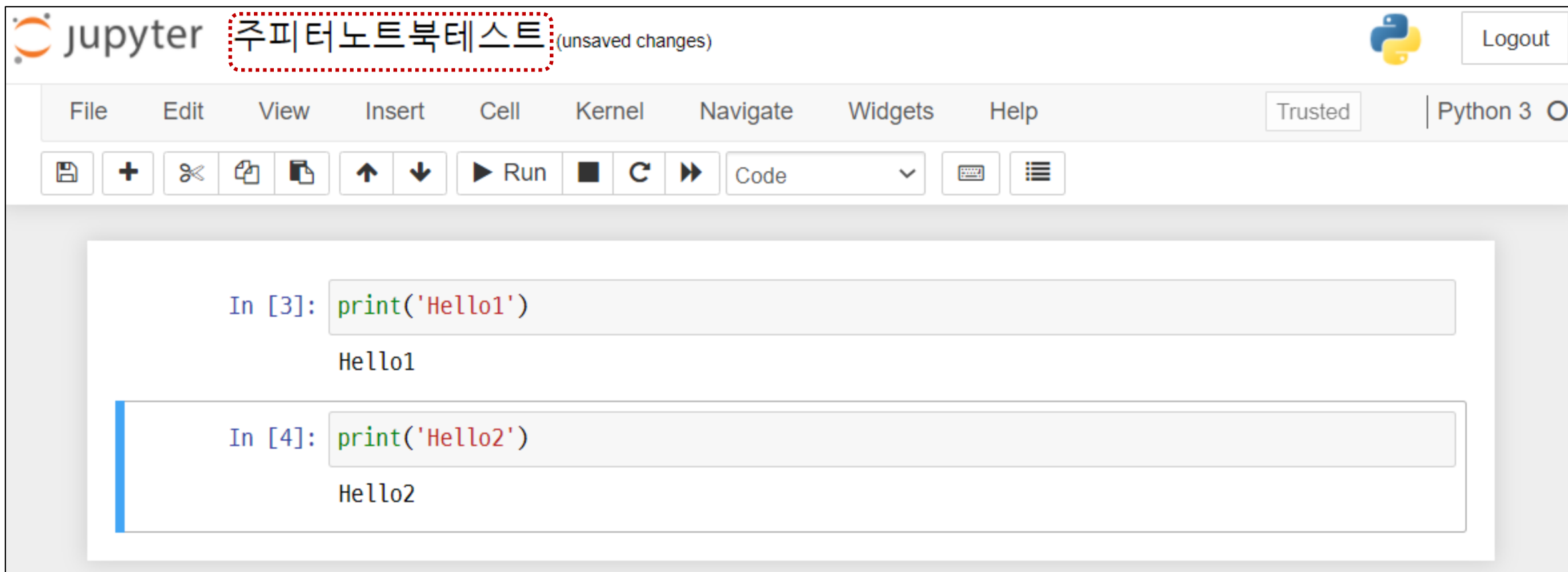
ml

open-data-analysis-basic-master

python

프로그램 작성/실행

제목변경



The image shows a Jupyter Notebook interface. At the top, the Jupyter logo is on the left, followed by the notebook title "주피터노트북테스트" (Jupyter Notebook Test) which is enclosed in a red dashed box. To the right of the title is the text "(unsaved changes)". On the far right of the header is a Python logo and a "Logout" button. Below the header is a menu bar with options: File, Edit, View, Insert, Cell, Kernel, Navigate, Widgets, and Help. To the right of the menu bar are buttons for "Trusted" and "Python 3". Below the menu bar is a toolbar with icons for saving, adding a new cell, undo, redo, cut, copy, paste, up/down arrows, a "Run" button, a "Clear" button, a "Refresh" button, a dropdown menu currently set to "Code", and a "Help" button. The main area of the notebook contains two code cells. The first cell is labeled "In [3]:" and contains the code `print('Hello1')`, with the output "Hello1" displayed below it. The second cell is labeled "In [4]:" and contains the code `print('Hello2')`, with the output "Hello2" displayed below it. A blue vertical bar is visible on the left side of the second cell.

ctrl + enter → 실행

shift + enter → 실행 후 코드 셀 추가

셀 추가/삭제

코드 셀
:녹색일 때는 편집모드
파란색일 때 실행모드

```
In [3]: print('Hello1')  
Hello1
```

```
In [ ]: print('Hello2')
```

실행모드에서 'DD'
→ 셀 삭제

실행모드에서 'B'
→ 뒤에 셀 추가

```
In [3]: print('Hello1')  
Hello1
```

```
In [ ]: print('Hello2')
```

```
In [ ]:
```

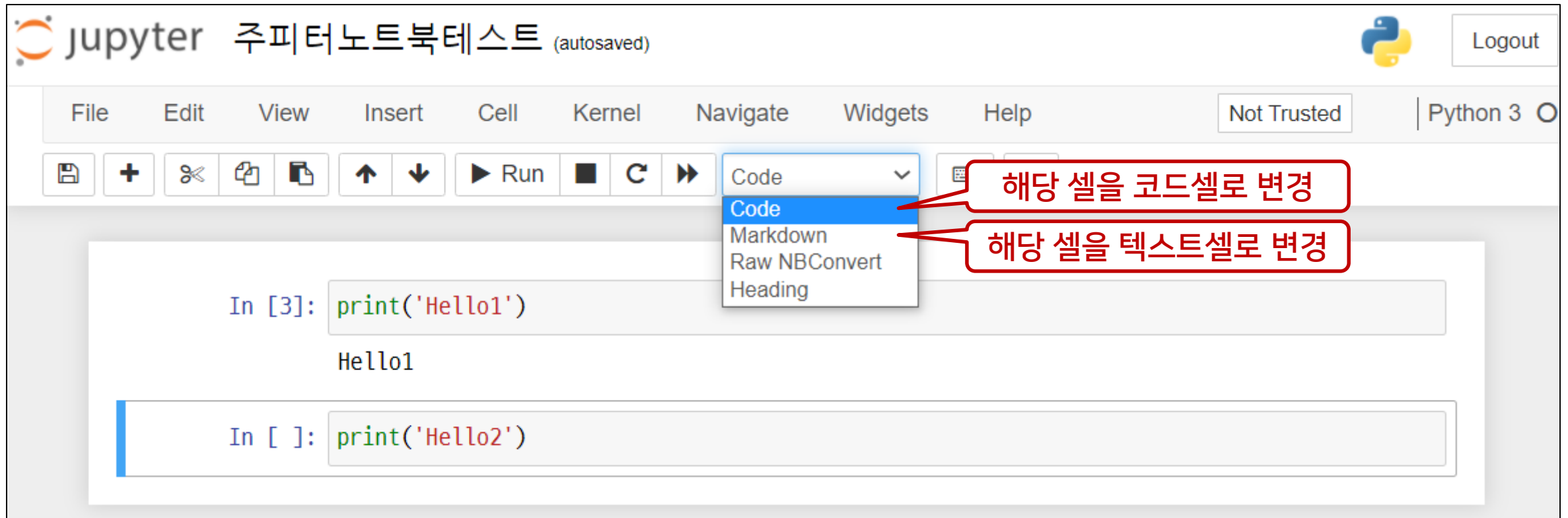
실행모드에서 'A'
→ 앞에 셀 추가

```
In [3]: print('Hello1')  
Hello1
```

```
In [ ]:
```

```
In [ ]: print('Hello2')
```

코드셀



The image shows the Jupyter Notebook interface. At the top, the title bar says "jupyter 주피터노트북테스트 (autosaved)" with a Python logo and a "Logout" button. Below the title bar is a menu bar with "File", "Edit", "View", "Insert", "Cell", "Kernel", "Navigate", "Widgets", and "Help". To the right of the menu bar is a "Not Trusted" status indicator and a "Python 3" selector. Below the menu bar is a toolbar with icons for saving, adding, deleting, copying, pasting, undo, redo, and running. A dropdown menu is open over the "Cell" menu, showing options: "Code", "Code", "Markdown", "Raw NBConvert", and "Heading". The first "Code" option is highlighted. Two red callout boxes point to the dropdown menu: the first points to the first "Code" option and contains the text "해당 셀을 코드셀로 변경" (Convert this cell to a code cell); the second points to the second "Code" option and contains the text "해당 셀을 텍스트셀로 변경" (Convert this cell to a text cell). The notebook content area shows two code cells. The first cell is labeled "In [3]:" and contains the code `print('Hello1')` followed by the output "Hello1". The second cell is labeled "In []:" and contains the code `print('Hello2')`.

jupyter 주피터노트북테스트 (autosaved) Python 3

File Edit View Insert Cell Kernel Navigate Widgets Help Not Trusted

Code Code Markdown Raw NBConvert Heading

해당 셀을 코드셀로 변경

해당 셀을 텍스트셀로 변경

In [3]: `print('Hello1')`
Hello1

In []: `print('Hello2')`

텍스트셀

The image shows a Jupyter Notebook interface with a menu bar (File, Edit, View, Insert, Cell, Kernel, Navigate, Widgets, Help) and a toolbar with icons for saving, adding cells, undo, redo, and running. The notebook title is "주피터노트북테스트 (unsaved changes)".

On the left, a text cell contains the text "# 텍스트셀입니다." (This is a text cell). Below it are two code cells:

```
In [3]: print('Hello1')  
Hello1
```

```
In [ ]: print('Hello2')
```

A red arrow labeled "ctrl + enter" points from the text cell to a zoomed-in view of the right side of the notebook.

On the right, the zoomed-in view shows the text cell's output, which is "1 텍스트셀입니다." (1 text cell).

Below the text cell, there are three more code cells:

```
In [3]: print('Hello1')  
Hello1
```

```
In [ ]: print('Hello2')
```

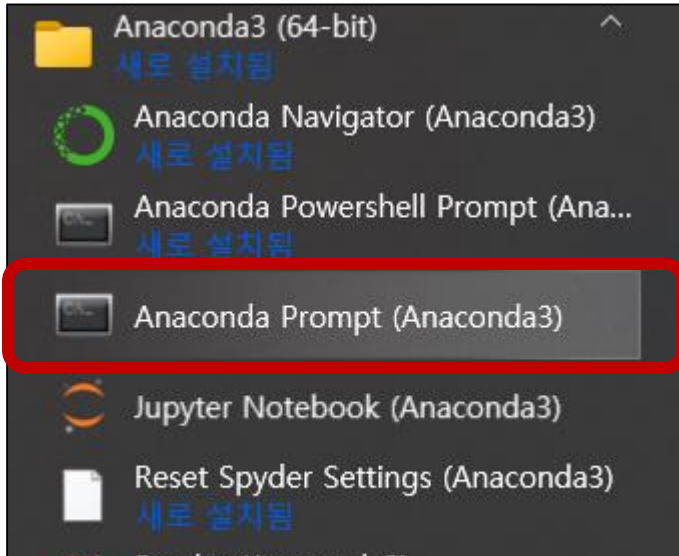
```
In [5]: %pwd  
Out[5]: 'C:\\codu5'
```



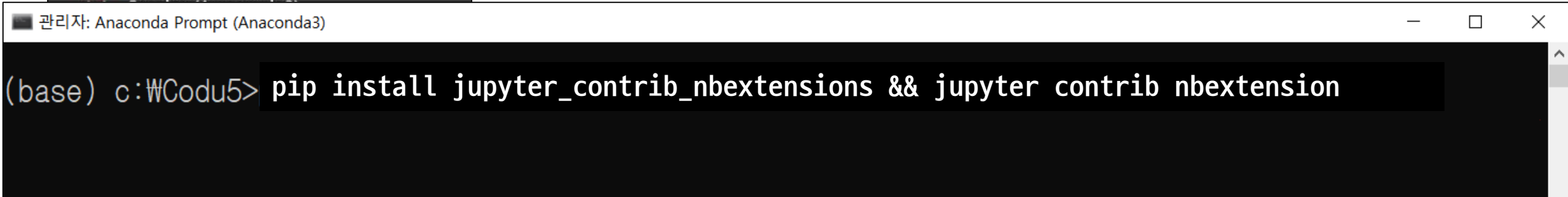
nbextensions로 목차기능 사용하기

nbextensions로 목차 기능 사용하기

① nbextensions 설치



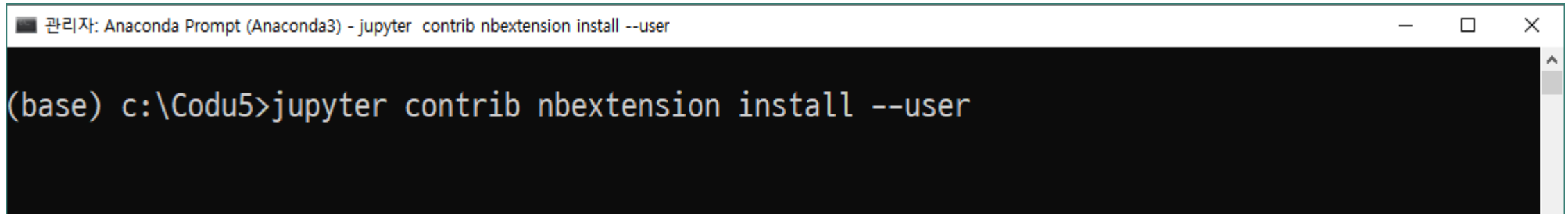
```
pip install jupyter_contrib_nbextensions && jupyter contrib nbextension
```



nbextensions로 목차 기능 사용하기

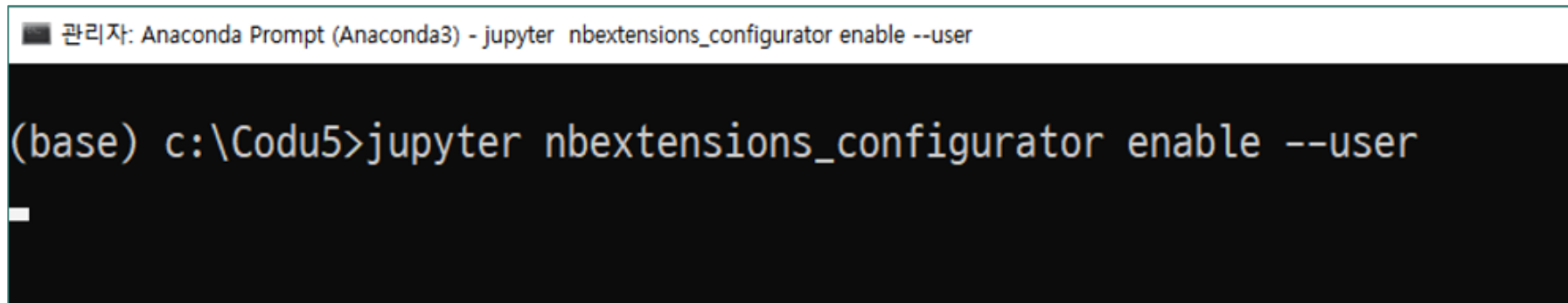
② nbextensions를 주피터노트북과 연결

- `jupyter contrib nbextension install --user`



```
관리자: Anaconda Prompt (Anaconda3) - jupyter contrib nbextension install --user  
(base) c:\Codu5>jupyter contrib nbextension install --user
```

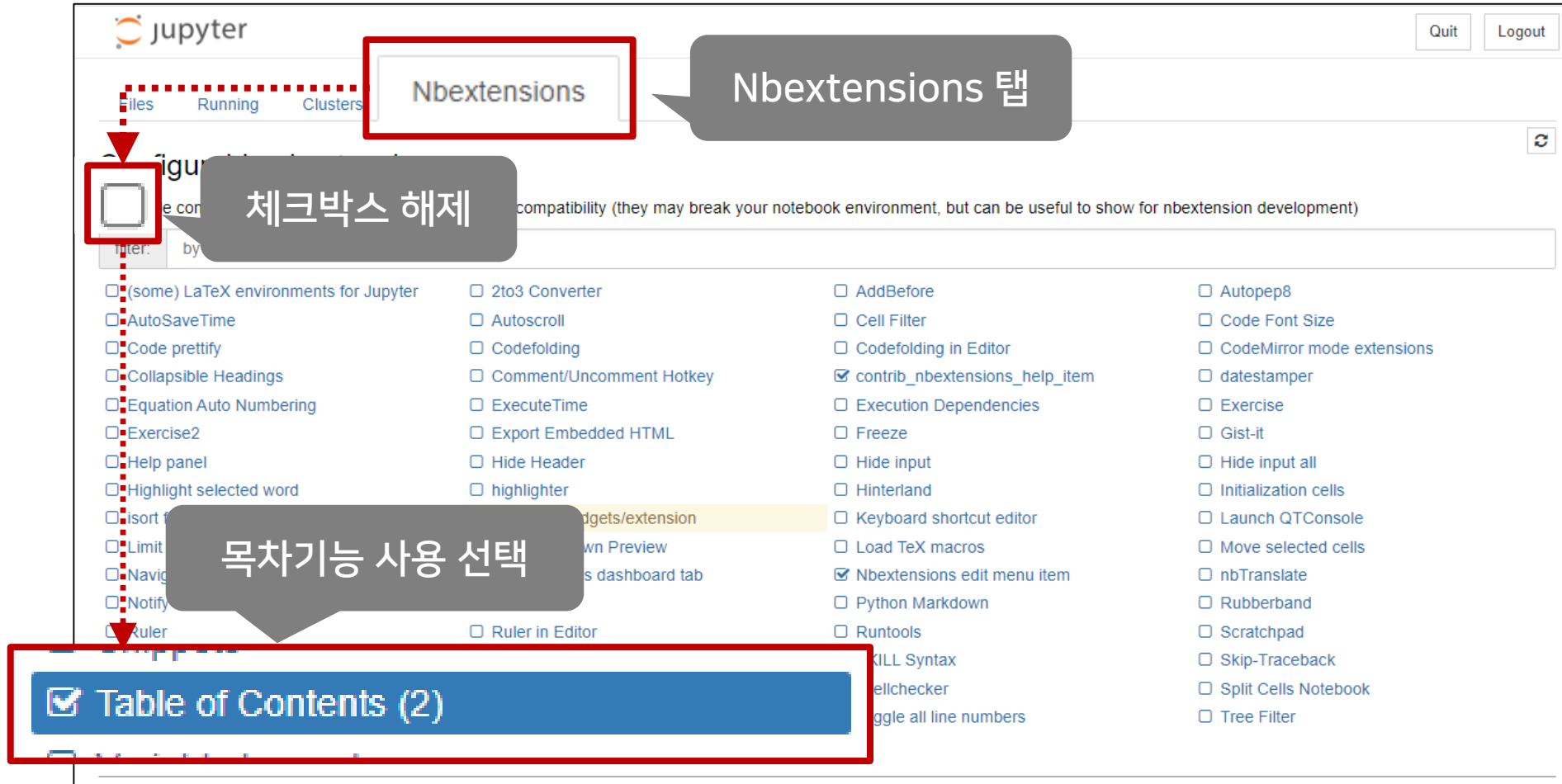
- `jupyter nbextensions_configurator enable --user`



```
관리자: Anaconda Prompt (Anaconda3) - jupyter nbextensions_configurator enable --user  
(base) c:\Codu5>jupyter nbextensions_configurator enable --user  
_
```

nbextensions로 목차 기능 사용하기

③ Jupyter notebook 재실행하여 목차기능 사용 설정



nbextensions로 목차 기능 사용하기

④ 목차 기능 사용하기

The screenshot shows the JupyterLab interface. The top bar includes the Jupyter logo and the text "판다스_(1)성적데이터 (autosaved)". Below this is a menu bar with options: File, Edit, View, Insert, Cell, Kernel, Navigate, Widgets, and Help. A toolbar contains icons for file operations, navigation, and execution. A red dashed box highlights the "Contents" sidebar on the left, which lists 11 items related to pandas DataFrame operations. A red dashed arrow points from the "Table of Contents" icon in the top toolbar to the "Contents" sidebar. The main area displays a code cell with the following code:

```
In [166]: import pandas as pd
```

Below the code cell, the output shows the title "1 데이터프레임 생성 (column 기준)" and the start of a DataFrame definition:

```
In [167]: df = pd.DataFrame(  
    {  
        "a": [4, 5, 6],  
        "b": [7, 8, 9],  
        "c": [10, 11, 12]  
    },
```



코딩폰트 적용하기

폰트변경

- > [크롬 설정] - [글꼴맞춤 설정] - [고정폭 글꼴]에서 폰트를 변경할 수 있다.
- > chrome://settings/fonts 로 직접 접속해도 된다.

고정폭 글꼴

D2Coding ▼

16: 재빠른 갈색 여우가 게으른 개를 뛰어넘습니다.

colab > 폰트변경








> D2Coding

구분	폰트명	숫자	영문자	한글	특수기호
1자 형태	굴림체	1			
	Consolas	1	1		
	D2 Coding	1	l		
0자 형태	굴림체	0	0	o	
	Consolas	0	0	o	
	D2 Coding	0	0	o	
코드 기호	굴림체	() { } [] " ' " : ; , . . - - + + = = _ _ /			
	Consolas	() { } [] " ' " : ; , . . - - + + = = _ _ /			
	D2 Coding	() { } [] " ' " : ; , . . - - + + = = _ _ /			

코딩폰트

> D2Coding 다운로드


<https://github.com/naver/d2codingfont>

	benelog Update README.md	72d7ad1 on 15 Jun 2018	🕒 35 commits
	D2Coding-Ver1.0-TTC-20150911.zip	D2 Coding 1.0 file	3 years ago
	D2Coding-Ver1.1-TTC-20151103.zip	D2 Coding 1.1 file	3 years ago
	D2Coding-Ver1.2-20161021.zip	D2 Coding 1.2	3 years ago
	D2Coding-Ver1.3-20171129.zip	D2 Coding 1.3 file	3 years ago
	D2Coding-Ver1.3.2-20180524.zip	1.3.2 배포	3 years ago
	README.md	Update README.md	3 years ago

← 다운로드 & 압축해제

이름	수정한 날짜	유형
 D2Coding	2021-03-22 오후 11:44	파일 폴더
 D2CodingAll	2021-03-22 오후 11:44	파일 폴더
 D2CodingLigature	2021-03-22 오후 11:44	파일 폴더

더블클릭 하여 설치

이름
 D2Coding-Ver1.3.2-20180524-all



마크다운

트리구조 목차 만들기

The image shows a Jupyter Notebook interface with a menu bar (File, Edit, View, Insert, Cell, Kernel, Navigate, Widgets, Help) and a toolbar. The 'Markdown' button in the toolbar is highlighted with a blue box. The left sidebar displays a 'Contents' panel with a tree structure of a table of contents. The tree structure is as follows:

- 1 대제목
 - 1.1 중제목
 - 1.1.1 소제목
 - 2 대제목

The '2 대제목' item is highlighted in yellow. The main area of the notebook shows the rendered HTML for the table of contents:

- 1 대제목
 - 1.1 중제목
 - 1.1.1 소제목
 - 2 대제목
 - ## 중제목

Blue callout boxes point to the rendered HTML for each level: '# 대제목' for the top level, '## 중제목' for the middle level, and '### 소제목' for the bottom level. The bottom level is currently rendered as '## 중제목'.

1 대제목

내용1
내용2
내용3

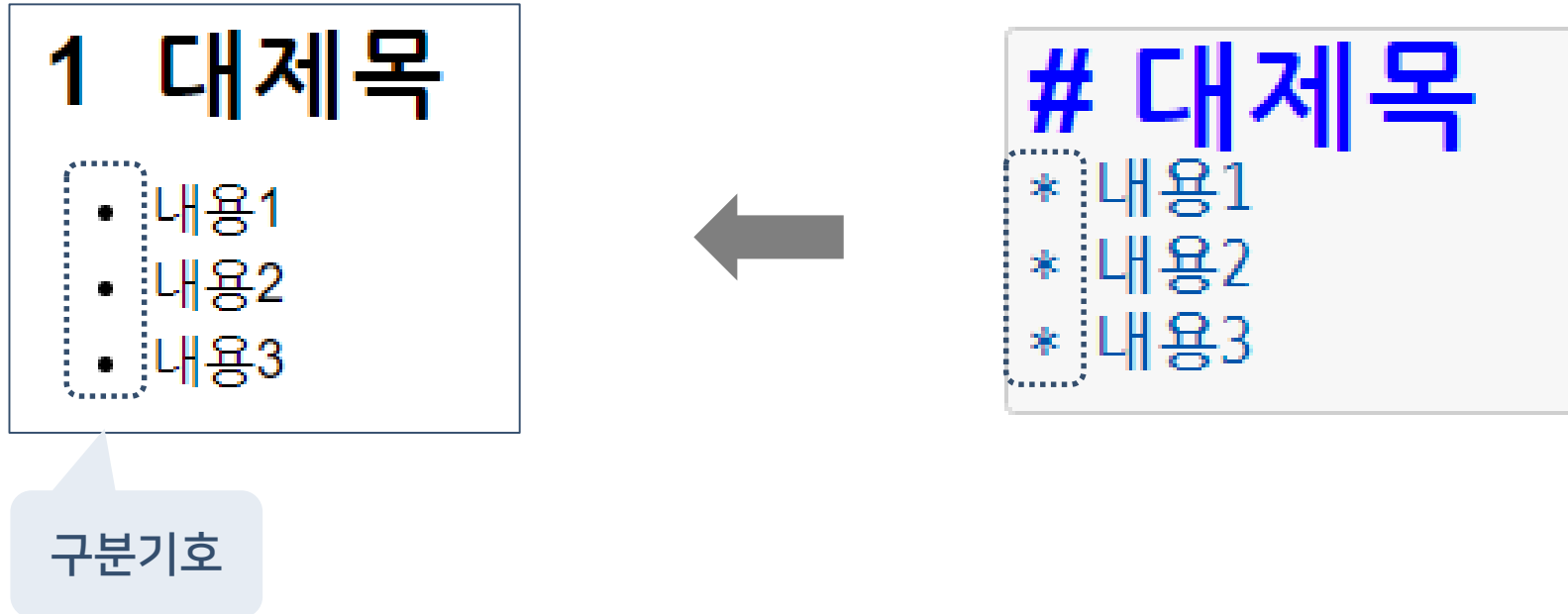


대제목

내용1
내용2
내용3

공백 2개를 입력하면 줄바꿈이 됩니다.

구분기호



수식

$$y = xy + 1$$



$$y = xy + 1$$

$$x = y^2$$



$$x = y^2$$

$$\pi$$



$$\pi$$

$$x = \frac{1}{y}$$



$$x = \frac{1}{y}$$

표

헤더1	헤더2
내용1	내용2
내용3	내용4
내용5	내용6



헤더1	헤더2
-----	-----
내용1	내용2
내용3	내용4
내용5	내용6