

Lab 1 – Working with Notebooks

These short series of exercises will help you become familiar with the most common operations you will carry out in a Jupyter notebook session.

1 – Jupyter Notebooks

- Create a new notebook
- Rename the notebook
- Change the first cell to markdown and enter some text.
- Change the text style to heading 1, heading 2, heading 3 (precede each line with #, ## or ###).
- Under the view menu, toggle the Header, Toolbar and Line Numbers.
- Under the Insert menu, insert a cell above the current cell and a cell below the current cell
- Try out the restart options under the kernel menu.
- Have a quick look at the download options available to you under the File menu
- Save your notebook

2 – Python – Auto Complete

- Type in the following code into a code cell and execute it.

```
import pandas as pd
```

- Find the inbuilt help for DataFrame()
- Type in the following code into a code cell and execute it (including the period)

```
pd.
```

- While the cursor is blinking at the period, press the <TAB> button and see the list of functions that can come after the period.
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3 – Python – Help

- Scroll down to DataFrame and press the <ENTER> button.
- Type in the following into a cell and execute it

```
pd.DataFrame?
```

- This will display any inbuilt help on the DataFrame function

4 – Python – Function Signatures

- Type in the following into a code cell

```
pd.read_excel( )
```

- Place the cursor in-between the open and closed parenthesis.
 - Press <SHIFT> + <TAB>
 - This will display the function signature
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