# **Lab Exercise: Jupyter Basics**

#### **Overview**

These are a short series of exercises to help you become familiar with some common operations in a Jupyter notebook session. Use this opportunity to experiment and become familiar with the Jupyter interface.

### 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 (proceed 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
```

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. These are the functions in the pandas library.
- Type in the following code into a code cell and execute it (including the period)

```
df = pd.DataFrame()
df.
```

While the cursor is blinking at the period, press the <TAB> button and see the list of functions that can come after the period. These are the functions available on a DataFrame.

## 4 - Accessing help

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

- This will display any inbuilt help on the read\_csv function
- Alternatively, in a code cell execute:

### 4 - Python - Function Signatures

Type in the following into a code cell

Place the cursor in-between the open and closed parenthesis.

- Press <SHIFT> + <TAB>
- This will display the function signature