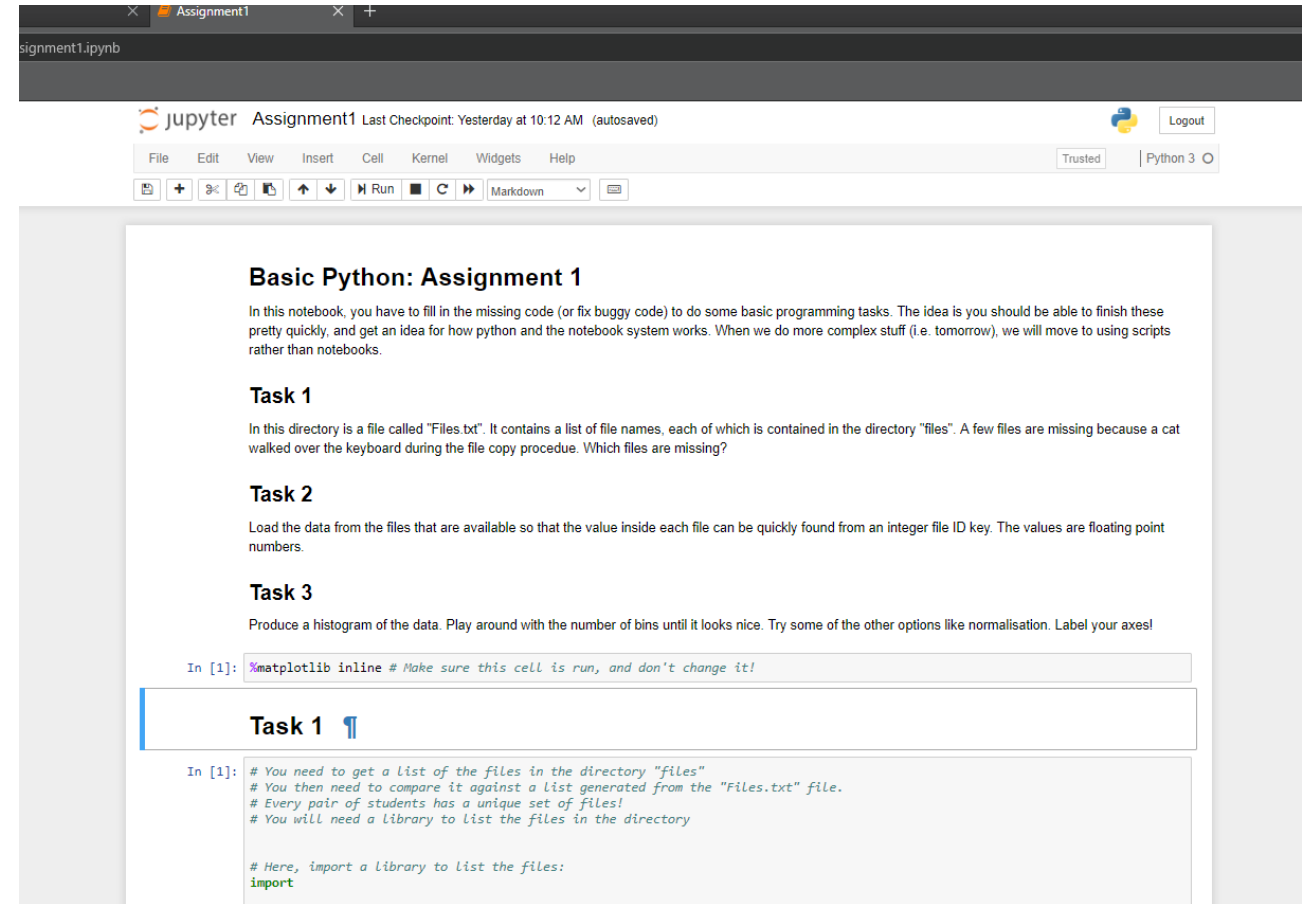# Python Practical 1

Intro

- **Today is not assessed**
  - Play around and get comfortable with python
  - Pick up some tricks to help tomorrow/Thursday
- If you run out of stuff to do, we have some extension tasks

Part 1

- Today we work in Jupyter notebooks
  - Should open in a web browser
  - Interactive environment
  - Code, instructions and notes all in one
- I've written a (hopefully useful) reference notebook
  - It has some filtering functions in that you might need…

Part 1

- To start a notebook, do the following:
  - Open Anaconda Prompt from start menu
  - Navigate to C:\PythonCourse
  - Type 'jupyter-notebook' into the prompt
  - Jupyter should open in the default web browser
  - To kill it, press Ctrl+C in the anaconda prompt
  - If you prefer chrome:
    - Open chrome and set it as default
    - Kill jupyter
    - Re-do the above
- The Browser should have something like a file browser in it, navigate to Day1
- If something doesn't work, or you get asked about tokens, ask for help

Part 1

- The notebook has instructions in it
- Broadly:
  - Load a file
  - Read the filenames from it
  - List files in a directory
  - Identify missing files
  - Load data from files into dictionary
  - Plot histogram of data from files

Bonus: Play games for the rest of the afternoon

- You have to write it first!
- We have a skeleton noughts and crosses game for you to finish off