- -> notebooks from this lecture: https://github.com/rmotr-curriculum/ds-content-interactive-jupyterlab-tutorial
- -> importing tools and using code
- -> in Jupyter notebooks, you can import notebooks
- ***-> data visualisation***
  - -> turning data into images
  - -> matplotlib <- this is the main library used for this
  - -> the figures show up in the notebook
- ***-> get data from a public API***
  - -> in this example, there is a list of different results of bitcoins
  - -> we are issuing requests to the internet
  - -> get the historic price
  - ***-> getting a price of bitcoin for a week -> we have imported the price of bitcoin for a week***
    - -> open, close, highest and lowest price
    - -> he is creating graphs from this data
    - -> the notebook is only outputting the first five records, but we have 169 of them in total
      - -> it's only printing out the head
    - -> you can also print out summary statistics for this
      - -> we do this because it makes larger datasets, for example with millions of entries, easier to interpret
  - ***-> bokeem <- this creates interactive, rather than static charts***
    - -> they are dynamic
    - -> you can zoom in and move around in the interface
    - -> if you are working with dynamically made data, you can zoom in
    - -> matplot lib is more popular
- ***-> this also works with csvs, XML files, Excel files***
  - -> you can run and export the crypto file as an excel spreadsheet from Jupyter lab
  - -> you can export two sheets with data from the previous notebook
  - -> the combination of Python and Jupyter lab
- ***-> next***
  - -> a review of Python
  - -> data analysis with pandas
  - -> Jupyter notebooks <- become efficient with this
- ***-> question***
  - What kind of data can you import and work with in a Jupyter Notebook?
    - Excel files.
    - CSV files
    - XML files.
    - Data from an API.
    - All of the above. <- This one