Exercise 1[¶](http://localhost:8888/notebooks/01x%20exercises%20-%20solution.ipynb#Exercise-1)

Data structure shown in previous notebook

{'Denmark': 210.05,

'Bulgaria': 3.56,

'Belgium': 146.71,

'Germany': 292.94,

'Czechia': 14.96}

should be transformed in a list of dictionaries named eurostat\_5cy where fields have the more generic names:

countryname year pat\_per\_million

After that run a loop on your list to find the country with the higher value of patents per million of inhabitants and show it with the country name.

### Exercise 2[¶](http://localhost:8888/notebooks/01x%20exercises%20-%20solution.ipynb#Exercise-2)

Small arrays can be built as lists of lists

ex: [[1,2,3],[4,5,6],[7,8,9]]

Create a short script to calculate the sum of diagonal elements