Please carefully read and follow the instructions regarding course work submissions. Failing to meet the requirements might lead to penalties. `https://elearn.uef.fi/mod/page/view.php?id=135658`
  If you suspect that something is wrong with some task instruction, please contact the lecturer.
  If you face persistent issues while working on an assignment, do ask for help, e.g. during a course meeting or by contacting the lecturer via email.

Attached material.

`fim_abalone.ipynb` Example Python notebook

`pyfim.py` Python implementation of a simplified version of the Eclat/LCM frequent itemset mining algorithm by C. Borgelt (`https://borgelt.net/eclat.html`)

`abalone.data` abalone dataset from `https://archive.ics.uci.edu/ml/datasets/abalone`.

Task 1 (Mining Frequent Itemsets from the abalone dataset).
The Python notebook `fim_abalone.ipynb` provides an example of applying frequent itemset mining to the abalone dataset from `https://archive.ics.uci.edu/ml/datasets/abalone`.
  Read and run through it.
  This notebook shows an example of how to prepare the dataset and how to run the mining algorithm on the data, with some different parameters. You should add your observations about the dataset, the mining process and the obtained results, throughout the notebook, as relevant. In particular, replace "[... add your observations here and throughout, as relevant]" at the end of the notebook.

Task 2 (Mining Frequent Itemsets from other datasets).
Carry out a similar analysis on some other datasets, such as

house from `https://archive.ics.uci.edu/ml/datasets/congressional+voting+records`

adult from `http://archive.ics.uci.edu/ml/datasets/Adult`

groceries from `https://www.kaggle.com/irfanasrullah/groceries`

  You can start from the provided example notebook, but you must update the explanations and observations according to the dataset considered and the results you obtain.
  In other words, for each dataset, you should explain what the dataset represents, actually look at the results and comment on how to interpret them.
  You should consider one small (e.g. house) as well as one larger (e.g. adult or groceries) datasets. You might consider datasets of your own choosing.