

Case study (project work)

1. Create (or download and customize) one or more datasets (text files), related to one of the following topics (can be selected by the students): Products, Invoices, Cars, Books, Movies, Jobs. Dataset(s) must contain at least 6 attributes in minimum 25 lines. (4 points)
2. Create methods to implement CRUD operations (4 points)
3. Create methods to handle the text file(s). (2 points)
4. Create minimum 4 useful methods to implement the basic algorithms learned in the lectures/seminars. (4 points)
5. Create minimum 4 useful methods to implement mathematical, statistical, or business calculations. (4 points)
6. Use as many data structures as possible from what you have learned (4 points)
7. Use as many Python-features as possible from what you have learned (4 points)
8. Create a main program to test each method. (4 points)

OOP approach is recommended, but not compulsory. Avoid using external modules (numpy, pandas ...).

+ (Optionally, for bonus): Create visualizations or data analysis based on dataset(s). Here, you can use external Python modules.