Assignment

- Create a program that processes three column CSV (below) into 4 column CSV

- Add 4-th column as a result of operation defined in 3rd column on the operands in the columns 1 and 2

568.230466925966;28.8792735700373;+

301.208470129689;877.943210287368;*

499.789999794327;778.952608132001;/

46.0484945634034;994.610536635629;-

Assignment

- Create a program that inputs a record given via command-line arguments and creates a corresponding JSON file
- The arguments are --id, --firstname, --lastname, --age
  - --id is mandatory
  - all others are optional
- The resulting file should be named <id>.json
- …and should contain fields id, firstName, lastName, age
- If the file already exists, the program should end with error unless --force is specified. In that case, the program will overwrite the file.

Assignment

- Create a program which reads a JSONL file with records as per the previous assignment (id, firstName, lastName, age) and creates a corresponding CSV file (with header)

- The JSONL format has a full JSON document on each line – thus it contains multiple records

- E.g.:
  - {"id": 1, "firstName": "A", "lastName": "B", "age": 20}
    {"id": 2, "firstName": "C", "lastName": "D", "age": 22}

Assignment

- Create a program that reads a file with a list of emails and stores them in a yaml formatted file

- Program also prints out a statistics – a domain and number of processed emails from the particular domain

  - Input file

    - a single email per line
    - a line contains an email only or email in angle brackets or a name and email in angle brackets
      - some@email.com
      - John Doe <john.doe@mail.net>
      - <jane.doe@email.org>

  - Output file

    people:
    　　- name: N/A
    　　　email: some@email.com
    　　- name: John Doe
    　　　email: john.doe@mail.net
    　　- name: N/A
    　　　email: jane.doe@email.org

Assignment

- Create a simple shell for file manipulations
  - Shell ~ a program that offers a command-line, to which a user can write commands
  - Supported commands
    - ls – list a content of the current directory
    - cd – change the current directory
    - pwd – print out the name of the current directory
    - cp <path> <new_path> – copy a file to a new path
    - rm <path> - delete a file
    - rmdir <path> - delete a directory
    - … think out other commands