

# HW08 Prob. 1 — Self-Designed Problem

- Design a programming problem and provide a reference solution.
- The problem should be solvable with what we have taught till **U11**.
- Avoid unnecessary use of features and functions not covered in **U11**.
- You will submit a program which contains the author name, problem description, required skills and functions, example IOs, and a reference solution.
- Conform to the format specified in previous homework.

# HW08 Prob. 2 — Majority Gender

- Consider the baby names database (from 1880 to 2020). Write the program `majority_gender.py` that determines whether there are more baby boys or girls in each year.
- It is assumed that the `names` folder (obtained after unzipping `names.zip`) is placed in the same folder as `majority_gender.py`.
- Do not include the `names` folder in your submission.
- **This is a team homework.**

```
fin2017 > python3 majority_gender.py
year 1880: more boys - 110490 > 90994
year 1881: more boys - 100738 > 91953
year 1882: more boys - 113686 > 107847
year 1883: more girls - 112319 > 104625
```

# 110490 and 90994 are numbers of baby boys and girls in 1880, respectively.

```
....
....
```

# omitted for simplicity.

```
year 2018: more boys - 1810309 > 1695654
year 2019: more boys - 1785527 > 1670419
year 2020: more boys - 1706423 > 1598836
```

```
fin2017 >
```

# HW08 Prob. 3 — Term Project Proposal

- Initial term project proposal

- One to two pages

- In pdf format

- Reference template

- Project title

- Team members

- What information to present

- How information be presented

- **This is a team homework.**



# Submission Guidelines

- Due: December 8, 2021 via NTU Cool
- Name your program as instructed in the problems.
- Pay attention to your programming style.
- **Avoid using Python features and functions not covered in lectures yet.**