

# Programming A

## 5th Weekly Note (E14, Week 40)

### Exam Project Part 1

Please remember the project deadline (October 2, 23:59). Get started, if you have not already!

### Reading for Week 40

- Chapters 13-17 of “Think Python: How to Think Like a Computer Scientist”

### Lecture: Thursday, October 2, 16-18 (U140)

In this lecture, we first repeated the basic ideas of the dictionary data structure. Then we introduced tuples and started on obtaining an understanding for which which data structures are useful in which situations.

### Labs: see detailed schedule on course home page

Do Exercises 11.1–11.6 and 11.8 from the textbook. If you are quick, also do Exercise 11.9–11.10. Then do Exercises 12.1, 12.3. If you are quick, try yourself on Exercises 12.4–12.5.

### Study groups: see personal schedule

First make a round and tell each other about the status of your project. If there are some among you that have not started yet, devise ways in which the group can support them to get started.

Then repeat last weeks exercise, i.e., use your study group to reflect on your experience with the project and to provide or receive help, depending on how far you have gotten with it. Start by individually reflecting on the project and identify each 3 challenges that you encountered during the project. Mark them as “SOLVED” or “PENDING” depending on whether you found a solution yet. Challenges can be both technical or process-oriented. An example could be “understanding how to identify the base case” or “writing a report for a computer science course”. Be as concrete as possible.

Collect the challenges in the group and cluster similar ones, e.g. on a blackboard or whiteboard. If there is a cluster that contains both SOLVED and PENDING challenges, team up those that marked the challenge SOLVED with those that marked it PENDING in order to see how their solution can be transferred.

If a cluster contains only PENDING, discuss it in the group and try to find a solution. If this takes too long, split up in smaller groups and work separately until you find a solution (or give up) and communicate it to the other groups. Afterwards, continue with the next challenge.