BFNP–F2016, Functional Programming   The IT University, Spring 2016

Exercise 4

This exercise sheet must be handed in via LearnIt by March 8th.

You are welcome to solve the assignments in pairs.

Your name must be part of the filename, e.g., `BFNP-04-<name1>-<name2>.fsx`, where `<name1>` and `<name2>` are the names of the two working together. Both `name1` and `name2` must upload the same file. An example: `BFNP-04-MadsAndersen-ConnieHansen.fsx`.

You can only upload one file and it must be of type `fs` or `fsx`.

It is important that you annotate your own code with comments.

For this hand-in you also need to consider scenarios where your solutions should return an error, i.e., an exception. The requirement is, that no matter what input you pass to your function that fulfils the function type, then the function should return the intended answer or an exception. It is up to you to define the exceptions and whether they should carry extra information, like error messages.

Exercise 4.1 HR exercise 9.1

Exercise 4.2 HR exercise 9.3

Exercise 4.3 HR exercise 9.4.
One iterative declaration is enough.

Exercise 4.4 HR exercise 9.6

Exercise 4.5 HR exercise 8.6
This to be used in the next task.

Exercise 4.6 HR exercise 9.7

Exercise 4.7 HR exercise 9.8

Exercise 4.8 HR exercise 9.9

Exercise 4.9 HR exercise 9.10

Exercise 4.10 HR exercise 9.11

Exercise 4.11 HR exercise 11.1

Exercise 4.12 HR exercise 11.2