Introduction to BASH and suggested Python exercise

The rolling dice simulator

Move though the BASH terminal

- pwd: show current directory
- ls: show content of current directory
- ls <directory path>: show content of selected directory
- cd <directory path>: change to the indicated direcory
- . (dot): current directory
- .. (two dots): previous directory (higher directory)
- mv <current path to file> <wanted path to file>: move (or rename) file
- rm <path to file>: delete file

The rolling dice simulator: Importance

- Random is important for tasks like selectin validation sets
- Random has settings (*e.g.:* number of options, sides of a dice...)
- Random seeds are key for reproducibility
- Results of random need to be stored and be useful for later analysis, for instance to classify patients/samples

The rolling dice simulator: Structure

Write a program that prints a list of **x** dice rolls on a dice of **y** sides.

- Use the random python package (included with basic distribution)
- **x** and **y** need to be selected from the bash terminal (sys.argv)
- Code structured in functions
- Output contained in a python list
- Try running the code with and without a random seeds several times

Extra: generate a binary (0 and 1) random list along with the throws and use it as a condition to make a selection/mask of your original random list.