Computational Finance and FinTech – Exercises 1

Exercise 1. Download and install Python and Jupyter Notebook (e.g. via Anaconda). Make sure you can run the Jupyter Notebook `00_getting_started.ipynb`.

Exercise 2. Let `name = 'John Smith'`. What are (explain!)

- `name[1]`,

- `name[-2]`,

- `name[1:-1]`?

How do you refer to all letters except the first one?

Exercise 3. What is the result of `f"{2+2}+{10%3}"`? Explain.
(Hint: `https://realpython.com/python-f-strings/`)

Exercise 4. Let `name = 'john smith'`. What does `name.title()` return? Explain.

Exercise 5. How can you check if `name` contains `'John'`?

Exercise 6. If `x=1`, what is the value of `x` after executing `x+=2`? Explain!

Exercise 7. What is the result of `10 == '10'`? Explain!

Exercise 8. What is the result of `'bag' > 'apple'`? Explain!

Exercise 9. Write a function that returns the maximum of two numbers.

Exercise 10. Write a function that takes one integer parameter and returns all prime numbers between 1 and the given argument (the value passed as the parameter).