

Introduction: Exercises

Erasmus Q-Intelligence B.V.

1 Getting started

Exercise 1.1. To familiarize yourself with the Jupyter Notebook interface, perform the following tasks.

- (a) Start up Visual Studio Code.
- (b) In VSCode open the introduction folder. Create a new notebook inside this folder.
- (c) In the new notebook, change the name of the notebook to a name of your choosing, and save the notebook.
- (d) Change the cell type of the first cell to *Markdown*. Add the following text to this cell (including the #):
This is a markdown header.
- (e) 'Execute' the cell using Shift + Enter. What happens when you do so?
- (f) Create or use a code cell and add: `print("Hello, World!")`. Execute the code cell.
- (g) Use the notebook toolbar (the 3 ellipses to the right side of the code cell) to create a copy of the Hello, World! cell, and paste it.
- (h) Delete the duplicate Hello, World! cell again. Use drag and drop (click on the left side of the cell) to swap the Code cell with the Markdown cell.

Exercise 1.2. To familiarize yourself with importing Python modules, perform the following tasks. You can use the notebook created in the previous exercise or create a new one.

- (a) Import the pandas module using the commonly used alias `pd`.
- (b) Call the help function for pandas' `read_csv` function. Can you tell what the `sep` argument is for? Extra: how about the `nrows` argument?
- (c) Import only the `sqrt` function from the module `math`. Use this function to find the square root of 25.