

## Practical #1:

### Working with various types of files

#### Exercise 1.

(1) Make use of the `xlsxWriter` (<https://xlsxwriter.readthedocs.io/>) to create a file called `students.xlsx`, which contain the following data.

student ID	gender	major
cs000234	female	computer science
bs101977	male	business
ds298387	female	data science

(2) Then make use of `openpyxl` (<https://openpyxl.readthedocs.io/>) to create another program to append the following two lines of data to the data of `students.xlsx`.

cs000124	male	computer science
bs202933	female	business

At the end, a new file `students2.xlsx` should look as followed.

student ID	gender	major
cs000234	female	computer science
bs101977	male	business
ds298387	female	data science
cs000124	male	computer science
bs202933	female	business

#### Exercise 2.

(1) Extract all files from the “P1dataset.zip” (the one you downloaded from Ultra) using Python code into a folder named “dataset”. Make sure none of the files inside “P1dataset” folder is a zip file.

(2) Write the `students.xls` and `students2.xls` which are created at Exercise 1 to “practical 2.zip”.