

Programming Assignment 06 Files and exceptions

Instructions

This programming assignment consists of **2 programming exercises**.

You have to:

- 1. **download** the empty Python files from Brightspace
- 2. add your code according to the assignment
- 3. **verify** on your computer that it works
- 4. upload them back on Gradescope (do not change the filenames)



Exercise 1 - File merging

Suppose we have **two text files file1.txt** and **file2.txt** in the same folder as your python program (you can download the sample files on NYU Classes and put it in the same folder as your program, or create your own text files).

Write a program (in the main() in exercise1.py) which inserts all the content from file2.txt to the beginning of file1.txt.

After executing your program, only file1.txt will be updated, file2.txt will not change.

Sample example 1:

• before execution of the program

	file1.txt		file2.txt
1 2 3	ICP Spring 2022	1 2 3 4	Coding Assignment 08 for
str	'ICP\nSpring\n2022\n'	str	'Coding\nAssignment\n08\nfor\n'

• after execution of the program

	file1.txt		file2.txt
1 2 3 4 5 6 7 8	Coding Assignment 08 for ICP Spring 2022	1 2 3 4	Coding Assignment 08 for

Sample example 2 (notice that the trailing \n were important in previous sample):

• before execution of the program

	file1.txt		file2.txt
1	1 2 3	1	4 5 6
str	'1 2 3'	str	'4 5 6'

• after execution of the program

	file1.txt		file2.txt
1	4 5 61 2 3	1	4 5 6



Exercise 2 - I won't let it crash!

Write a program (in the main() in exercise2.py) which:

- 1. asks the user to **input a filename** (supposedly in the same folder as your program)
- 2. reads the numbers (type int) in the file (filename given by the user in previous step) and stores them into a list
- 3. **prints** the **minimum**, the **maximum** and the **average** of the numbers (2 decimal places for the average)

Note: your program should be impossible to crash. Think about all the possibilities to make your program crash. If one of the steps throws an exception, display a message to the user and your program should loop back to step 1.

Sample example (the user input is in red, the printed output is in blue):

Filename:
Number.txt
File not found
Filename:
Numbers.txt
Minimum: 12
Maximum: 21
Average: 16.50