

HomeworkVI

COMSC-122

Fall 2017

HomeworkVI-A

- Write a program that will enter, from the keyboard, the name of a text file that you will type in.
- The program will assume that the text file contains a series of Integers.
 - It will then read in each of the Integers, counting and totaling the Integers as it progresses to the end.
 - When it's done reading the file, it will then compute the average of all the numbers typed in.
 - Finally, it will ask the user if they want to open up another file (y/n), and if so the above process will start all over again.
- Give your program the name: *YourName-HwrkVI-A.py*
- Run the program, and enter the file name: **numbers.txt** .
 - If you have written the program correctly, it should show the average (mean) of all the values in the file.

HomeworkVI

- Create a file called: **numbers2.txt** which has nothing in it.
 - Save this file and give it the name numbers2.txt
 - It is important that the file have nothing in it, not even a space.
 - Note: Canvas won't let me save such a file in your Dropbox, so you have to empty it yourself when you test HomeworkVI-A and HomeworkVI-B.
 - Do this right now. You will need it in order to proceed.

HomeworkVI-A

- Create a new file called: *YourName-HwrkVI-A.txt*
 - In this text file, please type the answers to the following questions:
- 1. Run the program, typing in the file name: numbers1.txt .
 - a. What happens?
 - b. What kind of an error did you get?
- 2. Try again, typing in the file name: numbers2.txt .
 - a. What happens?
 - b. What kind of an error did you get?
- 3. Try again, typing in the file name: badname.txt.
 - a. What happens?
 - b. What kind of an error did you get?

HomeworkVI-B

- You will now add additional code to HomeworkVI-A so that it will test for the exceptions that you got when you ran: numbers1.txt, numbers2.txt and badname.txt.
 - Call your new program: ***YourName-HwrkVI-B.py***
- Modify the program so that it will handle any **IOError** exceptions that are raised when the file is opened and data is read from it.
- Modify the program so that it will handle any **ValueError** exceptions that are raised when the items that are read from the file are converted to numbers.
- Modify the program so that if the file was empty any attempt to divide by zero would be handled.
- Submit your three files: ***YourName-HwrkVI-A.py***, ***YourName-HwrkVI-A.txt***, and: ***YourName-HwrkVI-B.py*** to the dropbox for HomeworkVI.