CS 112 Introduction to Programming **Fall 2022**

Lab 9: File I/O

Assignment is due by the end of the lab and must be submitted through Blackboard.

Submission instructions: you must submit **one Python file**. Please name the file in the usual NetID_2XX_Lab9.py format.

Problem Description:

The goal of this lab is to implement a function called `fileIO(fileInputPath)`, that will read the following input file, and write the output results to an output file.

How it Works:

You should first download the file **fileInput.txt** to use in this lab, the file can be found under the Lab Slides link in the CS112 Blackboard page, the file looks like the following:

```
What's the result of 3 multiplied by 4 plus 2 ?
What's the result of 12 divided by 2 minus 3 ?
What's the result of 10 multiplied by 5 minus 6 ?
What's the result of 15 divided by 3 plus 4 ?
```

Then define the function `fileIO(fileInputPath)` which should take **fileInput.txt** as input and calculate the result for each line as an integer. Then, the output results should be written to a new text file, named as **fileOutput.txt** (which needs to be created inside the function), and the expected content of **fileOutput.txt** should be as follows:

```
Result: 14
Result: 3
Result: 44
Result: 9
```

Important Guidelines:

Use operators such as +,−,*, /,** etc., as needed.
The following data types and their casting functions may be used: int, str.
You may use I/O Related Methods: open, read, write, readlines, etc.
You may use String Methods: split(),strip().
You may use conditional statements: if/elif/else
You may **not** import other modules (like math).
You may **not** use input() or print().