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File I/O - Writing - Individual Exercise

The purpose of this exercise is to provide you with the opportunity to create command line applications that are able to create and write to files.

Learning Objectives

After completing this exercise, students will understand:

- How to programmatically create and write to text files.
- How to read, interpret, and resolve errors related to file I/O.

Evaluation Criteria & Functional Requirements

Your code will be evaluated based on the following criteria:

- The project must not have any build errors.
- The expected results are output to the files.
- Paths to files are not hard coded. (ie. We should not need to change your code to run the application.)

FizzWriter

Create a program to write out the result of FizzBuzz (1 to 300) to a file called FizzBuzz.txt. The file should be written out to the same directory as this README file.

- If the number is divisible by 3 or contains a 3, print "Fizz"
- If the number is divisible by 5 or contains a 5, print "Buzz"
- If the number is divisible by 3 and 5, print "FizzBuzz"
- Otherwise print the number.

Expected Output:

FizzBuzz.txt has been created.

Things to keep in mind:

- A new file should be created each time the application is run.
- There is not any user interaction in this application. (The application should run and terminate. You should not need to press a key to stop the application.)

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File Splitter (Challenge)

Develop an application that takes a significantly large input file and splits it into smaller file chunks. These types of files use to be used quite common back in the earlier days of computing when disks such as floppies were much smaller and couldn't hold a larger program on their own.

In order to determine how many files need to be produced, ask the user for the maximum amount of lines that should appear in each output file.

Sample Input/Output:

```
Where is the input file (please include the path to the file)? [path-to-
file]/input.txt
How many lines of text (max) should there be in the split files? 3
The input file has 50 lines of text.
Each file that is created should have a sequential number assigned to it.
For a 50 line input file "input.txt" this will produce 17 output files.
**GENERATING OUTPUT**
Generating input-1.txt
Generating input-2.txt
Generating input-3.txt
Generating input-4.txt
Generating input-5.txt
Generating input-6.txt
Generating input-7.txt
Generating input-8.txt
Generating input-9.txt
Generating input-10.txt
Generating input-11.txt
Generating input-12.txt
Generating input-13.txt
Generating input-14.txt
Generating input-15.txt
Generating input-16.txt
Generating input-17.txt
```

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Things to keep in mind:

• * The input file name should be the prefix (the first part of the file name) followed by a dash (–), then the number of the current file, and finally ending with the file extension of the input file. For instance, if the name of the file was big-old-file.md, the file names should be big-old-file-1.md, big-old-file-2.md, etc.

- Output files will be written to the directory the input file is in.
- The application should run and terminate. You should not need to press a key to stop the application.

Getting Started

- Import the file-io-part2-exercises project into Eclipse.
- Open the java file for the application you are working on. The files are located in the src/main/java/com/techelevator directory.
- Provide enough code to get the program started.
- Verify your work on the command line and by running the wc command specified in the requirements.
- Repeat until the features have been implemented as outlined in the functional requirements.