

Class Activity 3

Exception Exercise – create the following classes:

IllegalFilenameExtension class

- Constructor should accept a String parameter that will accept customized message. It will be a subclass of IllegalArgumentException.

Filename class

- An instance field for complete file name that is passed to the constructor.
- Constructor that throws IllegalFilenameExtension.
 - Constructor will accept the name of a file and checks that there is at least a period in the filename, and that there are characters (the actual name of the file) in front of the period.
 - It should pass the exception class the message “Missing the filename extension. Missing extension might make the file unusable.”.
 - If legal filename, simply assign to instance field.
- A method that returns the application name based on the filename extension. Return the following:
 - “MS Word” for file extension .doc. or .docx
 - “MS Excel” for file extension .xls, .xlsx or .csv
 - “Notepad” for file extension .txt

FilenameTester

- Have user enter the filename
- Use try-catch block to check if filename format is legal
- Pattern tester after EmailChecker class in the sample code from the textbook