**File Name Validator - Problem Statement**

Given a file location, the program should validate the filename. If the file is invalid, it should print the error details along with the status of the file as passed or failed. The file name format should:

Test\_<portfoliocode>\_<ddmmyyyy>\_<2digit-sequencenumber>.csv

**Where:**

Test – hardcoded string prefix

<portfoliocode> - can only be A,B,C

<ddmmyyyy>– is valuation date format dd e.g 07, mm e.g 12, yyyy e.g 1987.

<2digit-sequencenumber> - is 2 digit sequence number

**Test Input and expected output (can be in any order)**

|  |  |
| --- | --- |
| **Filename** | **Expected output** |
| Test\_A\_07121987.csv | File ‘Test\_A\_07121987.csv’ passed validation. |
| Test\_E\_07121987.csv | File ‘Test\_E\_07121987.csv’ failed validation. PortfolioCode should be A/B/C found E. |
| Test\_A\_13121987.csv | File ‘Test\_A\_13121987.csv’ failed validation. Valuation Date is not a valid date format ‘ddmmyyyy’. |
| Hello\_A\_07121987.csv | File ‘Hello\_A\_07121987.csv’ failed validation. Prefix for the file should be ‘Test’ found ‘Hello’. |
| Test\_A\_07121987.txt | File ‘Test\_A\_07121987.txt’ failed validation.  Invalid File format.Expected ‘csv’ found ‘txt’ |
| Test.txt | File ‘Test.txt’ failed validation.File format should be ‘Test\_<portfoliocode>\_<ddmmyyyy>\_<2digit-sequencenumber>.csv’ |

This assignment should be done in Java, the only requirements are:

* No use of 3rd party libraries (except testing libraries)
* The program needs to accept input file and validate file name
* Treat this assignment as production code, that is, give it the same treatment you would in your day job.
* Provide a readme file with instructions to run the program.
* Mention the assumptions made or enhancements proposed
* You can deliver it to us in any way you like but ideally it would be a full working code.