Assignment 2
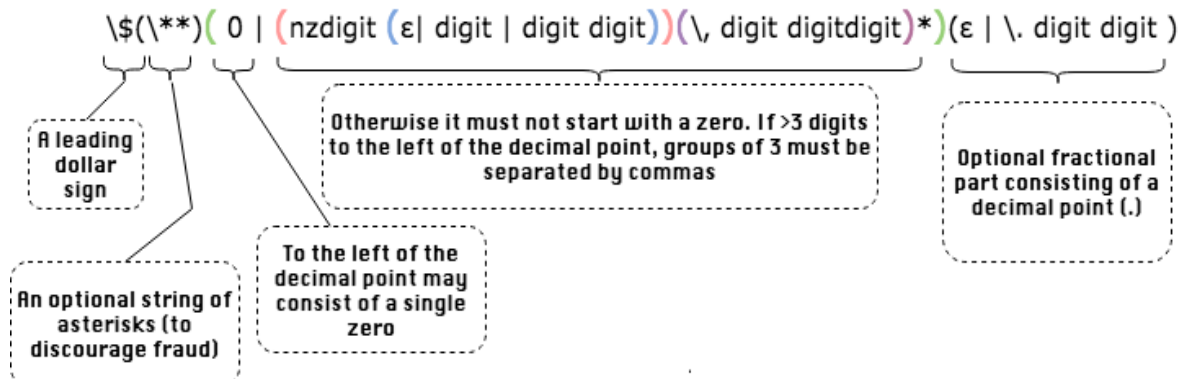
1. Chapter 2.6 - Exercise 2.1 (f): use the following expressions only
     i. A character
     ii. The empty string
     iii. Parenthesis
     iv. Concatenation
     v. 'Or'
     vi. Kleene star (Please use superscript star symbols, *)

In this regular expression the following have the specific meanings:
digit —> 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9
nzdigit —> 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9

2. Write a Java, C++, Python, JavaScript programs (without external library) that determines whether a given stream of characters is a financial quantity or not.

     i.   The file names of the source codes should be Assn2.java, Assn2.cpp, Assn2.py, and Assn2.js.
     ii.   The programs should read the input file name from the command-line arguments passed to the program. (args[], argv[], sys.argv[], and process.argv).
     iii.   The program should read each line from an input file and print out its evaluation.
     iv.   You can use any regular expression which is allowed in the programming languages.
     v.   Execution commands should be:
         -     javac Assn2.java; java Assn2 a2_input.txt

- g++ Assn2.cpp -o Assn2; ./Assn2 a2_input.txt
- python Assn2.py a2_input.txt
- node Assn2.js a2_input.txt

vi.   For MacOS, Linux users, you may need to run dos2unix to remove carriage return symbols in the a2 input.txt. vii. Expected output for the provided a2 input.txt.

Matched: $**2,345.67
Not Matched: $0,123.45
Not Matched: $*1,23.56
Matched: $*1,234,567.90

Note. Your programs will be tested with a different test file.

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Susans-MBP:Assignment2 slim$ javac Assn2.java; java Assn2 a2_input.txt
Matched: $**2,345.67
Not Matched: $0,123.45
Not Matched: $*1,23.56
Matched: $*1,234,567.90
Susans-MBP:Assignment2 slim$ g++ Assn2.cpp -o Assn2; ./Assn2 a2_input.txt
Matched: $**2,345.67
Not Matched: $0,123.45
Not Matched: $*1,23.56
Matched: $*1,234,567.90
Susans-MBP:Assignment2 slim$ python Assn2.py a2_input.txt
Matched: $**2,345.67
Not Matched: $0,123.45
Not Matched: $*1,23.56
Matched: $*1,234,567.90
Susans-MBP:Assignment2 slim$ node Assn2.js a2_input.txt
Matched: $**2,345.67
Not Matched: $0,123.45
Not Matched: $*1,23.56
Matched: $*1,234,567.90
Susans-MBP:Assignment2 slim$ ▊
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