

CECS 424
Assignment 2
Total: 43 Points

General Instruction

- I recommend that you type your answers to exercise questions by using a word processor (Microsoft word, LibreOffice writer, L^AT_EX, etc.).
 - If your programs could not be executed on a command line environment, **zero** grade will be given for the programs.
 - Submit PDF, java, cpp, py and js files via BeachBoard (Not email or in class).
-

1. (15 points) 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, ^{*})
2. (28 points) 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.