CALIFORNIA STATE POLYTECHNIC UNIVERSITY

Computer Science Department

CS 241 02 (4) T. Nguyen/F17

PROJECT: 1

October 20, 2017

Description:

Implement Chapter 24 Projects #3. Your *ExpressionTree* (ET) works with an expression that contains only variables or double values and supports operations +, -, *, and /.

Your ET must provide the following additional methods:

- 1. void setVariable(String name, double value) set the variable *name* with a *value*
- 2. void displayPostfix() output the ET in postfix format in one line, each token is separated by *one* space.

All exceptions must be handled properly.

Sample usage:

Required I/O:

```
F. Last's Expression Tree
...your program I/O
```

F. Last is your First initial and Last name.

Turn in:

- 1. Print out *only* the source code for ExpressionTree.java in landscape mode using non-proportional font (eg. Courier).
- 2. Compress all the source codes (*.java) into a single zip file with the structure:

```
proj1.zip
   ExpressionTest.java
   TreePackage/
        BinaryNode.java
...
```

and submit it with the following name: *flast*-proj1.zip, where *flast* is your first initial and last name, *lowercase*.

```
cp proj1.zip /user/tvnguyen7/cs24102/flast-proj1.zip
```

```
You should check out your project on the CPP intranet using: javac ExpressionTest.java java ExpressionTest
```

Grading Guide:

- 80%: Program correctness
- 20%: Coding efficiency, style, comments, formats

Notes:

1. The following information is required in the beginning of every source file.

```
//
// Name: Last, First
// Project: #
// Due: date
// Course: cs-241-02-f17
//
// Description:
// A brief description of the project.
//
```

2. The submission **must** be legibly printed.