exponentWorkBench pseudocode

To implement the algorithm, a simple calculator for exponents will be made. The user will be asked to enter in two numbers: a base number and then the exponent. Afterward it will give the result and ask if the user wants to do it again.

This will be using JOptionPane.

The program will prompt the user to enter in the base number in the JOptionPane.showInputDialog; the string is then parsed and passed into an int variable. The program will prompt the user to enter another number for the exponent and that is parsed and passed to the int variable.

The Math class calculates the base number being raised by X number. The result is then passed to a double variable, and then displays the result in a pane. A do-while loop is implemented to loop the program if the restart variable is true.

The program then prompts the user to enter in Y or N to restart the program or not. The answer the user enters will only read the first letter with charAt(0), and whatever the user enters will be capitalized by the toUpperCase method. If the user enters Y, then the restart variable will remain true and loop the arguments. If N is pressed, the loop will terminate and end the program.