The Regex Programming Assignment: Fractional Equation Solver

1. Write a regular expression patt that can be used to extract

    (numerator,denominator,operator,numerator,denominator)

from a string containing a fraction, an arithmetic operator, and a fraction

Example:

```
>>> s = "-23/45 + 14/9"
>>> re.findall(patt,s)
[("-23","45","+","14","49")]
>>> s = "-23/45 * 14/9"
>>> re.findall(patt,s)
[("-23","45","*","14","49")]
```

In general, your code should handle any of the operators **+, -, *** and **/**

2. Write a Python program that

> while True:

a) request and input a string from the user
b) if the string is empty, break (thus ending the program execution)
c) apply re.findall to get the 5-tuple as described above
d) create two fractions.Fraction objects, X and Y corresponding to the inputs
e) compute the fractions.Fraction object R that results from applying the operator to X and Y
f) prints the equation, **" = "** and the result R

Use Exceptions to detect errors; if an error occurs during steps b) to e), print an error message and start the loop again at step a)

Your code should be in a file named FractionSolver.py.