

## Programming with Python

### Practice Question

Write a function, `solve_expression()`, that takes a string of mathematical expressions as input and calculates the result of the mathematical expression. The input mathematical expression is in the following format:

"number operation number"

This function should return the result string in the following format:

"number operation number = result"

For calculation of result convert number in float if the number is a decimal number (e.g. 34.5) else convert it to integer. The function should give appropriate results for following 5 mathematical symbols:

Symbol	Operation	Input String	Expected Output
+	Addition	10 + 20	10 + 20 = 30
-	Subtraction	7.8 - 3	7.8 - 3 = 4.8
x	Multiplication	35 x 3	35 x 3 = 105
/	Division	36 / 3	36 / 3 = 12.0
^	Exponent	2 ^ 3	2 ^ 3 = 8

x is the alphabet x, in lowercase

Now, the text file `mathematical_expressions.txt` contains mathematical expressions, read this file and apply function `solve_expression()` on each line of this file and save the result in the same format as returned by the function in another text file named as `results.txt`.

While reading the text file, `mathematical_expressions.txt`, `FileNotFoundException` will occur if the file is not present in the given path. Use exception handling to manage this situation and display an appropriate message.