Exercise for Test Team candidats

In nodejs (i.e. javascript - https://nodejs.org), write a function that:

* receives as parameters the string representation of an arithmetic operator and two numerical values.
  + e.g. my\_calculator(operator, value1, value2)
* and returns the result of applying the operator to those two values.
  + (e.g. my\_calculator(‘+’, 4, 6); which would return 10)

The following 4 arithmetic operators should be supported: + - / \*

Then, use mocha (https://mochajs.org/) to extensively and appropriately test your function (you will be assessed on what you have considered to be “extensive and appropriate” testing).

* The outcome of the exercise will be a repository on GitHub, to which you will give us a link.

Thank you and best of luck!

Steps followed :1. Install node.js by downloading from <https://nodejs.org> and continue msi installation.

2.Install mocha from your command line by **npm install -g mocha** command.

3.Creating package.json file - Create Folder (calculatorexercise) and then create mycalculator.js from your command line enter **npm init**, add necessary information and click enter till all information is entered.

4. To run use **npm test** calculator.js contains the main my\_calculator function mycalculator.js contains the mocha test.

To run in future : from command line enter **npm test**

Result:

> mycalculator@1.0.0 test C:\Users\admin\Desktop\calculator exercise

> mocha

non numerical value

√ a+5 the first value a is not a numerical value

√ 5+a the second value a is not a numerical value

√ a+b both values are not numerical values

√ -+2 two operators and a number

√ 122 Missing operator

√ 5+null Missing operand

√ (5+4)/2 more operands

basic addition , subtraction, multiplication and division

Addition

√ 4+6 should equal 10

√ 0+3 should equal 3

√ 3+0 should equal 3

√ (-3)+6 should equal 3

√ (-3)+(-6) should equal -9

√ 3+(-6) should equal -3

subtraction

√ 5-3 should equal 2

√ 3-5 should equal -2

√ 9-0 should equal 9

√ 0-9 should equal -9

√ (-3)-(-6) should equal 3

√ (-3)-6 should equal -9

√ 3-(-6) should equal 9

Multiplication

√ 2\*6 should equal 12

√ 9\*0 should equal 0

√ 0\*9 should equal 0

√ (-5)\*(-6) should equal 30

√ (-5)\*6 should equal -30

√ 5\*(-6) should equal -30

√ 999999999999 \* 9999999999999 should equal 9.999999999998e+25

Division

√ 9/6 should equal 1.5

√ 9/0 can not divide by 0

√ 0/9 should equal 0

√ (-12)/(-6) should equal 2

√ (-15)/6 should equal -2.5

√ (6)/(-9) should equal -0.6666666666666666

undefined operator

√ + is a valid operator

√ - is a valid operator

√ \* is a valid operator

√ / is a valid operator

√ % is not a valid operator

√ | is not a valid operator

√ v is not a valid operator

√ ^ is not a valid operator

41 passing (64ms)