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28 July 2016

Calculator Class Unit Testing

Calculator class consists of five public mathematical operation functions, two public

data return functions and 2 private mathematical operations functions. The data in the object

s initialised using constructor.

1. __construct(\$operand_one, \$operand_two) : initialise the object for Calculator class.

2. add(), subtract(), multiply(),divide(), and modulus(): perform mathematical operations

3. internalDivide(), internalModulus(): for exception handling of zero denominator

4. getResult(), getErrorCode(): for getting the output of operation and error code

Error code 0 : All okay

Error code 89: Modulus by zero error

Error code 99: Divide by zero error

The folder unit_testing folder contains "calculator.php" which has the calculator class.

the folder calc-test contains "calculatorTest.php" which contains the test bench for calculator

class.

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The unit test cases are written in PHPUnit framework. There are 45 unit test with 45 assertions which permutation of positive numbers, negative numbers and zero, all the public mathematical operations are tested directly and the private functions are tested indirectly via divide() and modulus().

