PhpUnit Framework

Install phpunit using command

- >> composer require --dev phpunit/phpunit
- >> ./vendor/bin/phpunit --migrate-configuration

Creat Src Folder

Put main file inside it

→ Factorial.php

Create tests folder

Put test file with same name of main file +'Test'

→ FactorialTest.php

```
tests > © FactorialTest.php > % FactorialTest > © testFactorial

( ?php

require './src/Factorial.php';

use PHPUnit\Framework\TestCase;

class FactorialTest extends TestCase{

public function testFactorial()

f

ffact=new Factorial();

$this->assertEquals( expected: 1 , actual: $fact->factorial( num: 0));

$this->assertEquals( expected: 120 , actual: $fact->factorial( num: 1));

$this->assertEquals( expected: 120 , actual: $fact->factorial( num: 5));

$this->assertEquals( expected: null , actual: $fact->factorial( num: 1.5));

$this->assertEquals( expected: null , actual: $fact->factorial( num: 1.5));

$this->assertEquals( expected: null , actual: $fact->factorial( num: 1.5));

$this->assertEquals( expected: null , actual: $fact->factorial( num: false));

$this->assertEquals( expected: null , actual: $fact->factorial( num: false));

$this->assertEquals( expected: null , actual: $fact->factorial( num: false));

$this->assertEquals( expected: null , actual: $fact->factorial( num: 'abc'));

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```

Run Test File

>> ./vendor/bin/phpunit tests/FactorialTest.php

```
PS C:\XAMP\htdocs\Phpunit-Lab>
PS C:\XAMP\htdocs\Phpunit-Lab> ./vendor/bin/phpunit tests/FactorialTest.php

PHPUnit 10.0.5 by Sebastian Bergmann and contributors.

Runtime: PHP 8.2.0
Configuration: C:\XAMP\htdocs\Phpunit-Lab\phpunit.xml

. 1 / 1 (100%)

Time: 00:04.830, Memory: 6.00 MB

OK (1 test, 8 assertions)

PS C:\XAMP\htdocs\Phpunit-Lab> []
```