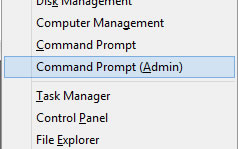
**Cách triển khai Unit Testing với framework PHPUnit trên Netbeans**

**1. Cài Xampp**

**2. Nhấn phím WINDOWS + X > chọn phím A để bật command với chế độ Administrator**



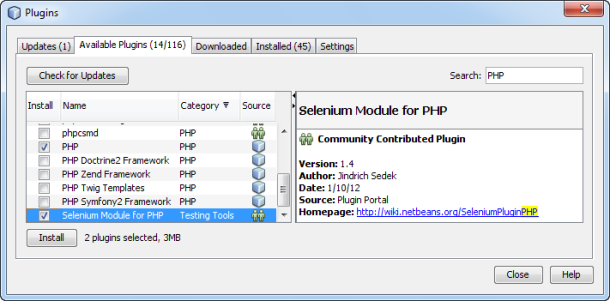
**3. Chuyển đến thư mục chứa PHP trong Xampp gõ lệnh:**

**>pear config-set auto\_discover 1**

**>pear install pear.phpunit.de/PHPUnit**

**4. Cài đặt netbean**

1. Tải bản Netbeans hỗ trợ PHP và cài đặt nó: <http://netbeans.org/downloads/index.html>
2. Sử dụng công cụ cài đặt plug-in của Netbeans để tìm các plug-in về PHP:



Cần cài đủ những plug-in sau:

1. PHP
2. Selenium Module for PHP
3. PHP Documentor Tag Help
4. PHP Documentor

**5. Cấu hình Netbean**

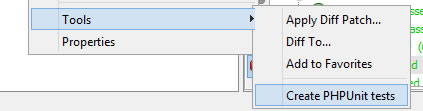
Từ thanh trình đơn của Netbeans > Tools > Options > chọn tab PHP

Mở tiếp sang tab **Unit Testing**:

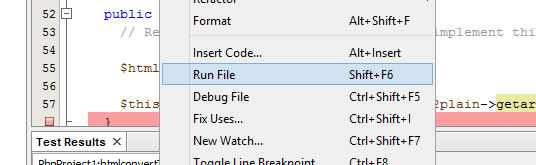
1. - Bấm nút Search trong phần**PHPUnit Script** để Netbeans tự động xác định PHPUnit.
2. - Bấm nút Search trong phần **Skeleton Generator** Script để Netbeans tự động xác định công cụ sinh ra các mã dành cho Unit Testing.

**6. Tạo một project và viết một class bất kỳ.**

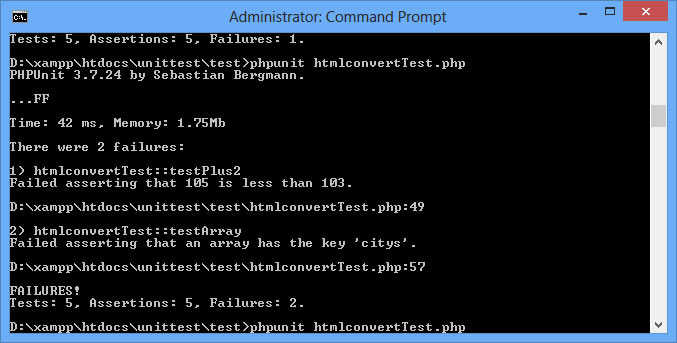
Sau khi viết xong nhấn vào file đó chọn Tools -> Create PHPUnit tests để tự động sinh ra các mã dành cho Unit Testing.



Sửa file vừa tự động sinh ra để test. Nếu muốn chạy thì nhấp chuột phải vào file đó chọn RUN file.



Nếu muốn chạy quan Command line thì dùng lệnh **phpunit đường\_dẫn**



Để chạy được PHPUnit bằng command line cần cài thư việc PHPUnit qua PEAR

**>pear install phpunit/PHPUnit**

Để tự động sinh mã cần cài thư việc SkeletonGenerator

**>pear install phpunit/PHPUnit\_SkeletonGenerator**

Một số phương thức hay dùng của PHPUnit

[assertArrayHasKey()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertArrayHasKey) Kiểm tra xem key đó có trong chuỗi trả về hay không

[assertClassHasAttribute()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertClassHasAttribute) Kiểm tra xem thuộc tính có tồn tại trong chuộ trả về hay không

[assertEquals()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertEquals) Kiểm tra chính xác chuỗi trả về

[assertContains()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertContains) Kiểm tra chuỗi trả về có chứa kỹ tự … hay không

[assertClassHasStaticAttribute()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertClassHasStaticAttribute)

[assertContainsOnly()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertContainsOnly)

[assertContainsOnlyInstancesOf()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertContainsOnlyInstancesOf)

[assertCount()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertCount)

[assertEmpty()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertEmpty)

[assertEqualXMLStructure()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertEqualXMLStructure)

[assertFalse()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertFalse)

[assertFileEquals()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertFileEquals)

[assertFileExists()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertFileExists)

[assertGreaterThan()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertGreaterThan)

[assertGreaterThanOrEqual()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertGreaterThanOrEqual)

[assertInstanceOf()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertInstanceOf)

[assertInternalType()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertInternalType)

[assertJsonFileEqualsJsonFile()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertJsonFileEqualsJsonFile)

[assertJsonStringEqualsJsonFile()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertJsonStringEqualsJsonFile)

[assertJsonStringEqualsJsonString()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertJsonStringEqualsJsonString)

[assertLessThan()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertLessThan)

[assertLessThanOrEqual()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertLessThanOrEqual)

[assertNull()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertNull)

[assertObjectHasAttribute()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertObjectHasAttribute)

[assertRegExp()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertRegExp)

[assertStringMatchesFormat()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertStringMatchesFormat)

[assertStringMatchesFormatFile()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertStringMatchesFormatFile)

[assertSame()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertSame)

[assertSelectCount()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertSelectCount)

[assertSelectEquals()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertSelectEquals)

[assertSelectRegExp()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertSelectRegExp)

[assertStringEndsWith()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertStringEndsWith)

[assertStringEqualsFile()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertStringEqualsFile)

[assertStringStartsWith()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertStringStartsWith)

[assertTag()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertTag)

[assertThat()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertThat)

[assertTrue()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertTrue)

[assertXmlFileEqualsXmlFile()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertXmlFileEqualsXmlFile)

[assertXmlStringEqualsXmlFile()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertXmlStringEqualsXmlFile)

[assertXmlStringEqualsXmlString()](http://phpunit.de/manual/3.7/en/writing-tests-for-phpunit.html#writing-tests-for-phpunit.assertions.assertXmlStringEqualsXmlString)