Lab exercise 3 (TDD)

- Write a test suite for testing User class:
 - Test setup: initialize suser as instance of User, with some initial name and email.
 - \$user->name() should retrieve name.
 - \$user->name('Samy') should change user's name to Samy.
 - \$user->email() should retrieve email.
 - \$user->email('samy@gmail.com') should change user's email to samy@gmail.com.
 - Test teardown: \$user->delete();
- Run the suite and write the code to make it all pass.

```
bootstrap.php

1 /*
2 * Unit & Automated Testing - Lab 2 Exercise 3
3 * Author: Mahmoud Mohamed Kamal
4 * Date: 28-03-1998
5 * File: bootstrap.php
6 */
7 |
8 <?php
9 // my app includes
10 spl_autoload_register(function($class) {
11     @include_once(_DIR__ . "/classes/{$class}.php");
12 });
13 ?>
```

```
ada?>
class SampleTest extends PHPUnit\Framework\TestCase {
            private static $user;
    public static function setUpBeforeClass() : void{
        self::$user = new User('Mahmoud','mahmoud@email.com');
            public function test_name(){
                        $this->assertTrue(self::$user-
>getName()==='Mahmoud');
            public function test_email(){
        \verb| $this-> assertTrue(self:: $user-> getEmail() === 'mahmoud@email.com'); \\
            public function test_name_Samy(){
         self::$user->setName('samy');
         $this->assertTrue(self::$user->getName()==='samy');
    public function test_email_Samy(){
        self::$user->setEmail('samy@gmail.com');
        $this->assertTrue(self::$user->getEmail()==='samy@gmail.com');
    public static function tearDownAfterClass() : void{
        self::Suser->delete():
?>
```

\$ gedit Desktop/lab2/class/User.php &

```
<?php
class User {
            private $username, $email;
            public function __construct($username, $email) {
                        $this->username = $username;
                        $this->email = $email;
            public function getName(){
                        return $this->username;
            public function getEmail(){
                        return $this->email;
            public function setName($n){
                        $this->username = $n;
            public function setEmail($e){
                        $this->email = $e;
            public function delete(){
                        $this->username = NULL;
                        $this->email = NULL;
            }
```

```
User.php
1/*
2 * Unit & Automated Testing - Lab 2 Exercise 3
3 * Author: Mahmoud Mohamed Kamal
4 * Date: 28-03-1998
5 * File: User.php
6 */
7 |
 7|
8 <?php
9 class User {
10     private Susername, Semail;
     construct</pre>
                  public function __construct($username, $email) {
    $this->username = $username;
    $this->email = $email;
13
16
                  public function getName(){
    return $this->username;
                  }
                  public function getEmail(){
    return $this->email;
22
23
24
25
                  public function setName($n){
                               $this->username = $n;
                  public function setEmail(Se){
                               $this->email = $e;
                  }
                  public function delete(){
                               $this->username = NULL;
$this->email = NULL;
```

\$ ~/phpunit --testdox

```
/*

* Unit & Automated Testing - Lab 2 Exercise 3

* Author: Mahmoud Mohamed Kamal

* Date: 28-03-1998

* File: User.php

*/

Sample

/ Name

/ Email

/ Name Samy

/ Email Samy

Time: 00:00.016, Memory: 18.00 MB

OK (4 tests, 4 assertions)
```

Lab exercise 4

 Write a test suite to test a class from your most recent PHP assignment ☺

```
<phpunit bootstrap="bootstrap.php">
 <testsuites>
   <testsuite name="Sample">
    <directory>tests</directory>
  </testsuite>
 </testsuites>
</phpunit>
<?php
// my app includes
spl_autoload_register(function($class) {
           @include_once(__DIR___.
"/classes/{$class}.php");
?>
class SampleTest extends PHPUnit\Framework\TestCase {
           private static $user;
   public static function setUpBeforeClass() : void{
       self::$user = new User('Mahmoud', 1234567890,
'mahmoud@email.com');
   }
           public function test_name(){
                      $this->assertTrue(self::$user-
>getUsername()==='Mahmoud');
           public function test_password(){
       \verb| $this-> assertTrue(self:: $user-> getPassword() === 1234567890); \\
   }
           public function test_email(){
       $this->assertTrue(self::$user->getEmail()==='mahmoud@email.com');
   }
           public function test_name_Kamal(){
       self::$user->setUsername('Kamal');
       $this->assertTrue(self::$user->getUsername()==='Kamal');
           public function test_password_Kamal(){
        self::$user->setPassword(1234);
       $this->assertTrue(self::$user->getPassword()===1234);
    public function test_email_Kamal(){
       self::$user->setEmail('kamal@email.com');
        $this->assertTrue(self::$user->getEmail()==='kamal@email.com');
    public static function tearDownAfterClass(): void{
       self::Suser->delete():
```

```
<?php
class User
  private $username, $password, $email;
  public function __construct($username, $password, $email)
    $this->setEmail($email);
    $this->setUsername($username);
    $this->setPassword($password);
  function getUsername()
    return $this->username;
  function getPassword()
    return $this->password;
  function getEmail()
    return $this->email;
  function setUsername($username)
    $this->username = $username;
  function setPassword($password)
    $this->password = $password;
  function setEmail($email)
    $this->email = $email:
  function delete()
    $this->setEmail(NULL);
    $this->setUsername(NULL);
    $this->setPassword(NULL);
```

```
User.php
      Lab 3
Author: Mahmoud Mohamed Kamal
Date: 26-02-2022
File: User.php
9 class User
       private $username, $password, $email;
       public function __construct($username, $password, $email)
{
$this->setEmail($email);
$this->setUsername($username);
$this->setPassword($password);
       function getUsername()
           return $this->username;
       function getPassword()
           return $this->password;
       function getEmail()
           return $this->email;
       function setUsername($username)
           $this->username = $username;
       function setPassword($password)
           Sthis->password = Spassword:
```

\$ ~/phpunit --testdox

```
Sample

✓ Name

✓ Password

✓ Email

✓ Name Kamal

✓ Password Kamal

✓ Email Kamal

Time: 00:00.006, Memory: 18.00 MB

OK (6 tests, 6 assertions)
```

\$ ~/phpunit --testdox-html index.html



Sample

- ✓ Name
- ✓ Password
- ✓ Email
- ✓ Name Kamal
- ✓ Password Kamal
- ✓ Email Kamal

\$ ~/phpunit --testdox-text index.txt

```
index.html

1 Sample
2 [x] Name
3 [x] Password
4 [x] Email
5 [x] Name Kamal
6 [x] Password Kamal
7 [x] Email Kamal
```

\$ ~/phpunit --testdox-xml index.xml

```
| Index.tml | | In
```