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TP14 Assignment

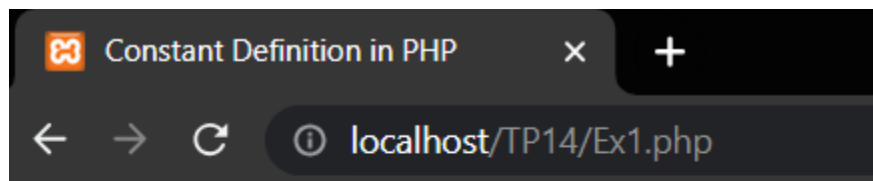**Git url:** https://github.com/LyhongPich/TP-Internet-Programming/tree/TP14

Contents

Ex1: Constant Definition in PHP

- Source code:

```
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Constant Definition in PHP</title>
7   </head>
8   <body>
9       <?php
10          define("EMAIL", "lyhong@gmail.com<br>");
11          echo EMAIL;
12
13          define("myCon", true);
14          if(myCon) {
15              echo "True<br>";
16          }
17
18          define("ONECONSTANT", "some value<br>");
19
20          define("CONSTANT", "Hello world.<br>");
21          echo CONSTANT;
22      ?>
23   </body>
24   </html>
```

- Result:

Constant Definition in PHP

localhost/TP14/Ex1.php

lyhong@gmail.com
True
Hello world.

Ex2: String Concatenation in PHP

- Source code:

```php
 1    <!DOCTYPE html>
 2    <html lang="en">
 3    <head>
 4        <meta charset="UTF-8">
 5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6        <title>String Concatenation in PHP</title>
 7    </head>
 8    <body>
 9        <?php
10            $like = "I like php";
11            $num = 7;
12            echo $like . $num;
13
14            echo "<p>";
15            echo $like . " " . $num;
16            echo "</p>";
17
18            echo "My favorite php version is $num";
19        ?>
20    </body>
21    </html>
```
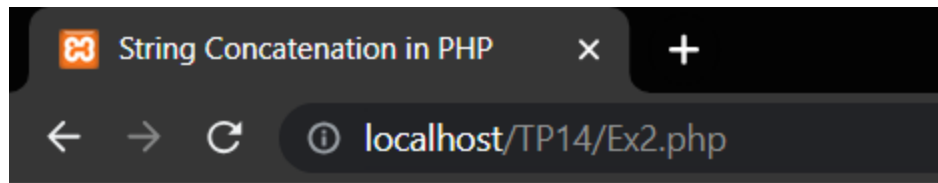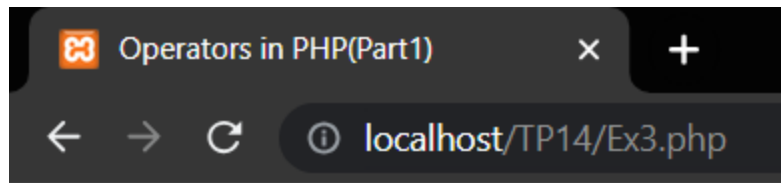
- Result:

I like php7

I like php 7

My favorite php version is 7

Ex3: Operators in PHP (Part1)

- Source code:

```php
Ex3.php
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Operators in PHP(Part1)</title>
7   </head>
8   <body>
9       <?php
10          $var = 1;
11          echo $var++, "<br>";
12          echo ++$var, "<br>";
13          echo --$var, "<br>";
14          echo $var--, "<br>";
15      ?>
16  </body>
17  </html>
```

- Result:

1
3
2
2

Ex4: Operators in PHP (Part2)

- Source code:

```php
Ex4.php
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Operators in PHP(Part2)</title>
7   </head>
8   <body>
9       <?php
10          $var = "value";
11          echo $var."<br>";
12          $var = 1;
13          echo $var."<br>";
14          $var += 3;
15          echo $var."<br>";
16      ?>
17  </body>
18  </html>
```
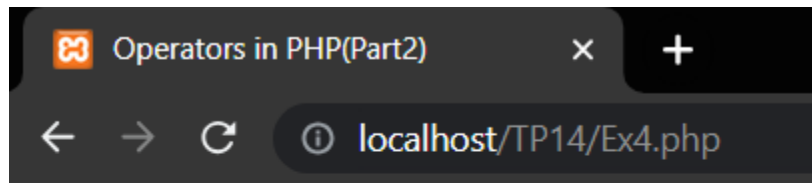
- Result:

value
1
4

Ex5: Concatenation

- Source code:

```php
Ex5.php
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>Concatenation</title>
7    </head>
8    <body>
9        <?php
10           $name = "John";
11           $lastName = "Travolta";
12           echo $name." ".$lastName;
13
14           $a = "Hello";
15           $a .= "John!";
16           echo $a;
17       ?>
18   </body>
19   </html>
```
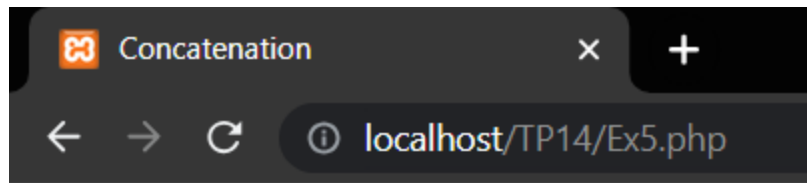
- Result:

John TravoltaHelloJohn!

Ex6: PHP Decision Making (If-Else)

- Source code:

```php
Ex6.php
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>PHP Decision Making (If - Else Statement)</title>
7    </head>
8    <body>
9        <?php
10           $date = date("m-d");
11
12           if($date == "07-10") {
13               echo "Wishing you a very Happy Birthday";
14           }
15           else{
16               echo "Not your Birthday today";
17           }
18       ?>
19   </body>
20   </html>
```

- Result:

Wishing you a very Happy Birthday

Ex7: PHP Decision Making (If-Elseif-Else)

- Source code:

```php
Ex7.php
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>PHP Decision Making (If - Elseif - Else Statement)</title>
7    </head>
8    <body>
9        <?php
10           $date = date("m-d");
11
12           if($date == "07-10") {
13               echo "Wishing you a very Happy Birthday";
14           }
15           else if($date == "08-15") {
16               echo "Happy Independence Day";
17           }
18           else {
19               echo "Sorry";
20           }
21       ?>
22   </body>
23   </html>
```
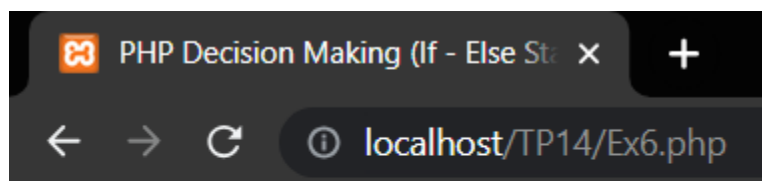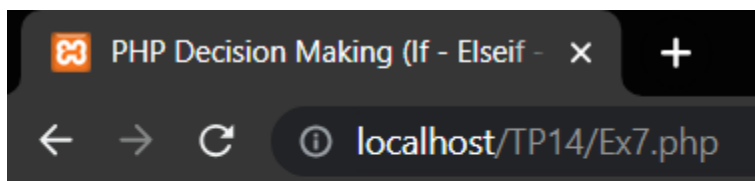
- Result:

Wishing you a very Happy Birthday

Ex8: PHP Decision Making (Switch)

- Source code:

```php
Ex8.php
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>PHP Decision Making (Switch Statement)</title>
7    </head>
8    <body>
9        <?php
10           $myFavColor = 'red';
11           switch ($myFavColor) {
12               case 'pink':
13                   echo 'My favorite car color is pink!';
14                   break;
15               case 'red':
16                   echo 'My favorite car color is red!';
17                   break;
18               case 'orange':
19                   echo 'My favorite car color is orange!';
20                   break;
21               default:
22                   echo 'My favorite car color is not pink, red or orange!';
23           }
24       ?>
25   </body>
26   </html>
```
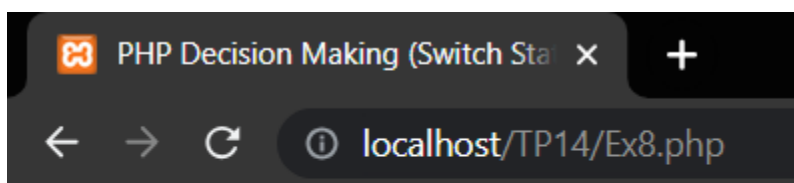
- Result:

My favorite car color is red!

Ex9: PHP Loops (While Loop)
- Source code:

```php
Ex9.php
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>PHP Loops (While Loop)</title>
7   </head>
8   <body>
9       <?php
10          $i = 1;
11
12          while($i <= 5) {
13              echo "Hello while $i times"."<br>";
14              $i++;
15          }
16      ?>
17  </body>
18  </html>
```
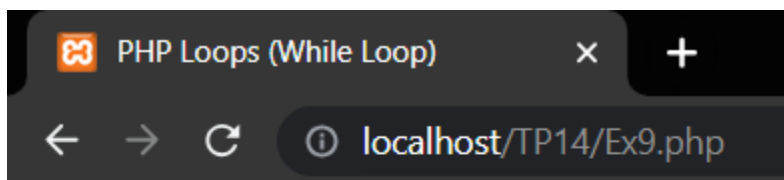
- Result:

PHP Loops (While Loop)   ×   +

← → C   ⓘ localhost/TP14/Ex9.php

Hello while 1 times
Hello while 2 times
Hello while 3 times
Hello while 4 times
Hello while 5 times

Ex10: PHP Loops (Do While Loop)
- Source code:

```php
Ex10.php
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>PHP Loops (Do While Loop)</title>
7   </head>
8   <body>
9       <?php
10          $i = 0;
11          do{
12              $i++;
13              echo "php do...while loop $i times"."<br>";
14          }while($i <= 5);
15      ?>
16  </body>
17  </html>
```
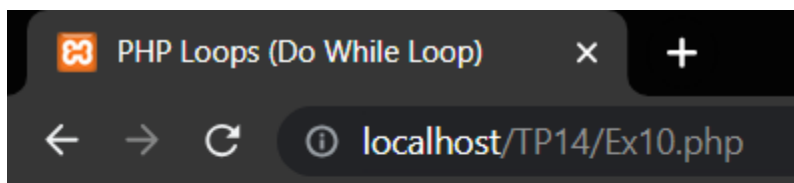
- Result:

PHP Loops (Do While Loop) × +

← → C ⓘ localhost/TP14/Ex10.php

php do...while loop 1 times
php do...while loop 2 times
php do...while loop 3 times
php do...while loop 4 times
php do...while loop 5 times
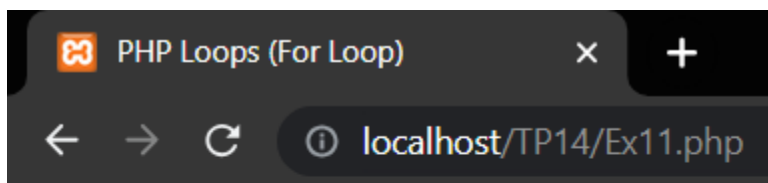php do...while loop 6 times

Ex11: PHP Loops (For Loop)

- Source code:

```
Ex11.php
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>PHP Loops (For Loop)</title>
7    </head>
8    <body>
9        <?php
10           for ($i=1; $i <= 5; $i++) {
11               echo "PHP for loop print $i times"."<br>";
12           }
13        ?>
14    </body>
15    </html>
```

- Result:

PHP Loops (For Loop) × +

← → C ⓘ localhost/TP14/Ex11.php

PHP for loop print 1 times
PHP for loop print 2 times
PHP for loop print 3 times
PHP for loop print 4 times
PHP for loop print 5 times

Ex12: PHP Loops (Foreach Loop)

- Source code:

```php
Ex12.php
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>PHP Loops (Foreach Loop)</title>
7   </head>
8   <body>
9       <?php
10          $salary[] = 2000;
11          $salary[] = 3000;
12          $salary[] = 5000;
13
14          foreach($salary as $value) {
15              echo "Salary: $value<br>";
16          }
17      ?>
18  </body>
19  </html>
```
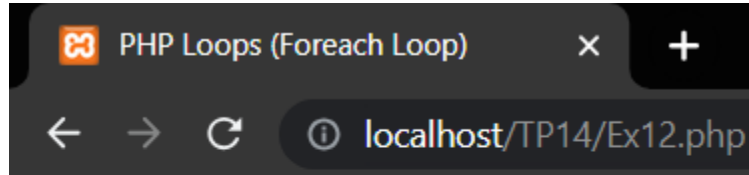
- Result:

PHP Loops (Foreach Loop)   ×   +

← → C ⓘ localhost/TP14/Ex12.php

Salary: 2000
Salary: 3000
Salary: 5000

Ex13: PHP Array (Numberic Array)

- Source code:

```php
Ex13.php
 1    <!DOCTYPE html>
 2    <html lang="en">
 3    <head>
 4        <meta charset="UTF-8">
 5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6        <title>PHP Array (Numberic Array)</title>
 7    </head>
 8    <body>
 9        <?php
10            $age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");
11
12            foreach($age as $x => $val) {
13                echo "$x = $val<br>";
14            }
15        ?>
16    </body>
17    </html>
```
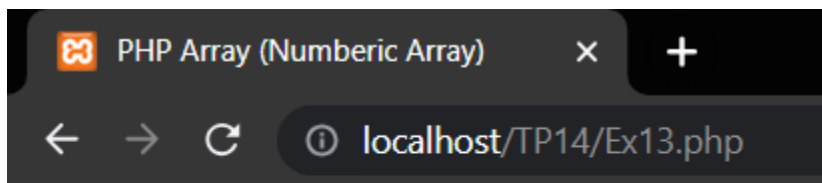
- Result:

PHP Array (Numberic Array)   ×   +

← → C   ⓘ localhost/TP14/Ex13.php

Peter = 35
Ben = 37
Joe = 43

Ex14: PHP Array (Multi-dimensional)
- Source code:

```php
Ex14.php
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>PHP Array (Multi-dimensional)</title>
7    </head>
8    <body>
9        <?php
10           $multiDArray = array(
11               "A" => array(0 => "red", 2 => "blue", 3 => "green"),
12               "B" => array(1 => "orange", 2 => "black"),
13               "C" => array(0 => "white", 4 => "purple", 8 => "grey")
14           );
15
16           echo $multiDArray["A"][3];
17           echo "<br>";
18           echo $multiDArray["C"][8];
19       ?>
20   </body>
21   </html>
```
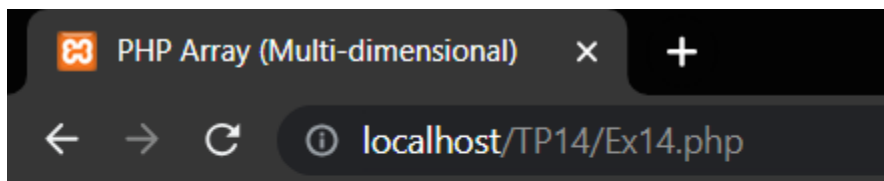
- Result:

PHP Array (Multi-dimensional)   ×   +

← → C ⓘ localhost/TP14/Ex14.php

green
grey

Ex15: PHP Session
- Source code:

```php
Ex15.php
 1    <!DOCTYPE html>
 2    <html lang="en">
 3    <head>
 4        <meta charset="UTF-8">
 5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6        <title>PHP Session</title>
 7    </head>
 8    <body>
 9        <?php
10            session_start();
11
12            $_SESSION["username"] = "lyhong";
13            $_SESSION["email"] = "lyhong@gmail.com";
14
15            echo $_SESSION["username"];
16            echo "<br>";
17            echo $_SESSION["email"];
18        ?>
19    </body>
20    </html>
```
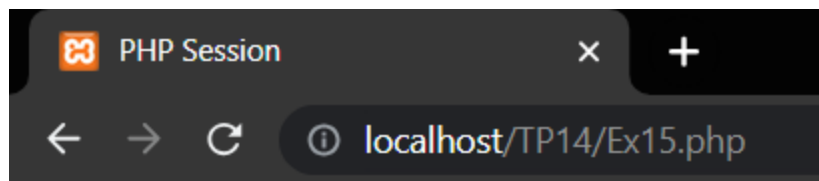
- Result:

PHP Session

localhost/TP14/Ex15.php

lyhong
lyhong@gmail.com

Ex16: PHP Post Form Handling

- Source code:

```
Ex16 > php index.php
 1   <!DOCTYPE html>
 2   <html lang="en">
 3   <head>
 4       <meta charset="UTF-8">
 5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6       <title>PHP Post Form Handling</title>
 7   </head>
 8   <body>
 9
10       <form action="registration.php" method="post">
11           Name: <input type="text" name="name">
12           Email: <input type="text" name="email">
13
14           <input type="submit">
15       </form>
16
17
18
19   </body>
20   </html>
```
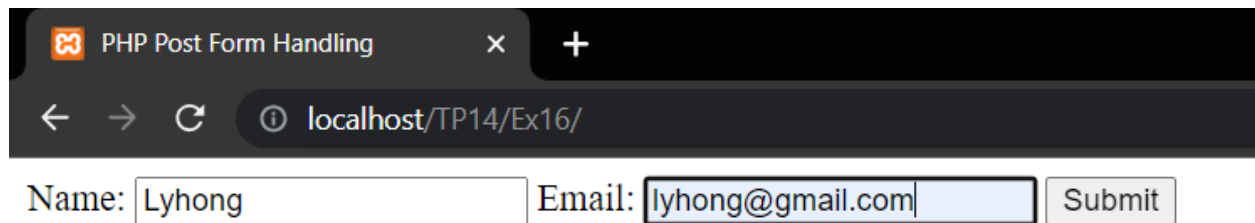
```
Ex16 > php registration.php
 1   <!DOCTYPE html>
 2   <html lang="en">
 3   <head>
 4       <meta charset="UTF-8">
 5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6       <title>PHP Post Form Handling</title>
 7   </head>
 8   <body>
 9       Welcome <?php echo $_POST["name"]; ?>!
10       Your email address is <?php echo $_POST["email"]; ?>
11   </body>
12   </html>
```
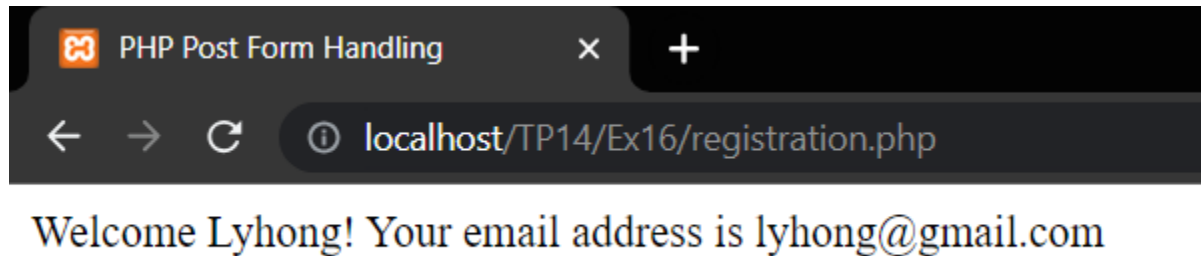
- Result:

Welcome Lyhong! Your email address is lyhong@gmail.com

Ex17: PHP Get Form Handling

- Source code:

```
Ex17 > 🐘 index.php
   1    <!DOCTYPE html>
   2    <html lang="en">
   3    <head>
   4        <meta charset="UTF-8">
   5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
   6        <title>PHP Get Form Handling</title>
   7    </head>
   8    <body>
   9        <form action="registration.php" method="get">
  10            Name: <input type="text" name="name">
  11            Email: <input type="text" name="email">
  12
  13            <input type="submit">
  14        </form>
  15    </body>
  16    </html>
```

```
Ex17 > 🐘 registration.php
   1    <!DOCTYPE html>
   2    <html lang="en">
   3    <head>
   4        <meta charset="UTF-8">
   5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
   6        <title>PHP Get Form Handling</title>
   7    </head>
   8    <body>
   9        Welcome <?php echo $_GET["name"]; ?>!
  10        Your email address is <?php echo $_GET["email"]; ?>
  11    </body>
  12    </html>
```
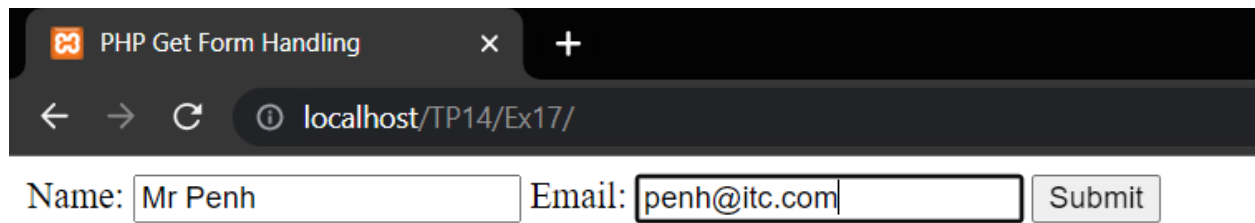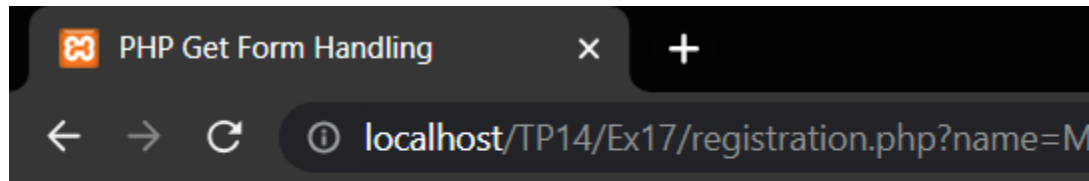
- Result:

Welcome Mr Penh! Your email address is penh@itc.com

Ex18: Sample HTML Forms

- Source code:

```php
Ex18 > php index.php
 1   <!DOCTYPE html>
 2   <html lang="en">
 3   <head>
 4       <meta charset="UTF-8">
 5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6       <title>Sample HTML Forms</title>
 7   </head>
 8   <body>
 9       <form action="registration.php" method="post">
10           Name: <input type="text" name="emp_name">
11           <br>
12           Number: <input type="text" name="emp_number">
13           <br>
14           Email: <input type="text" name="emp_email">
15           <br>
16           <input type="submit" name="Submit" value="Submit">
17       </form>
18   </body>
19   </html>
```

```php
1   <!DOCTYPE html>
2   <html lang="en">
3   <head>
4       <meta charset="UTF-8">
5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
6       <title>Sample HTML Forms</title>
7   </head>
8   <body>
9       <?php
10          if(isset($_POST['Submit'])) {
11              $emp_name = trim($_POST["emp_name"]);
12              $emp_number = trim($_POST["emp_number"]);
13              $emp_email = trim($_POST["emp_email"]);
14
15              if($emp_name == "") {
16                  $errorMsg = "error: Please enter number.";
17                  $code = "2";
18
19                  echo $errorMsg."<br>Error code: ".$code;
20              }
21
22              elseif (is_numeric(trim($emp_number)) == false) {
23                  $errorMsg = "error: Please enter numberic value.";
24                  $code = "2";
25
26                  echo $errorMsg."<br>Error code: ".$code;
27              }
28
29              elseif ($emp_email == "") {
30                  $errorMsg = "error : You did not enter an email.";
31                  $code =  "3";
32
33                  echo $errorMsg."<br>Error code: ".$code;
34              }
35
36              elseif (!preg_match("/^[_\.0-9a-zA-Z-]+@([0-9a-zA-Z][0-9a-zA-Z-]+\.)+[a-zA-Z]{2,6}$/i", $emp_email)) {
37                  $errorMsg = 'error : You did not enter a valid email.';
38                  $code = "3";
39
40                  echo $errorMsg."<br>Error code: ".$code;
41              }
42
43              else {
44                  echo "Success";
45              }
46          }
47      ?>
48   </body>
49   </html>
```
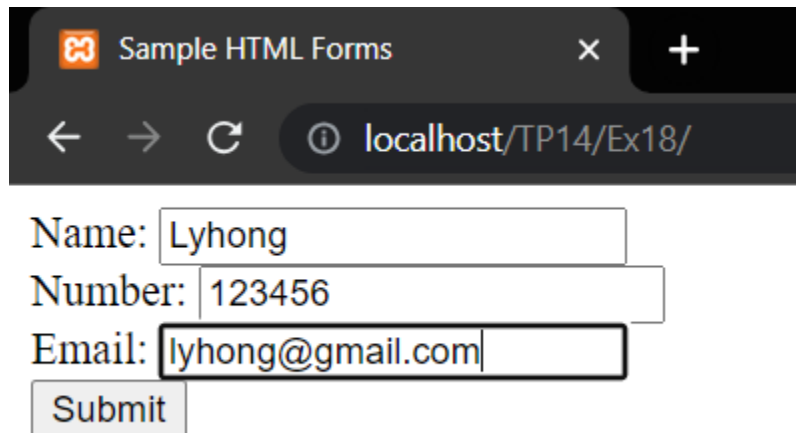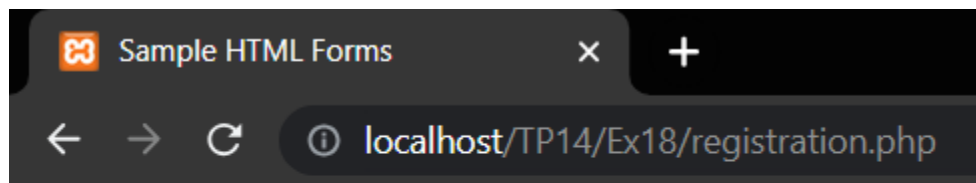
- Result:

Success

Ex19: PHP File Upload
- Source code:

```
Ex19 > 🐘 index.php
  1    <!DOCTYPE html>
  2    <html lang="en">
  3    <head>
  4        <meta charset="UTF-8">
  5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
  6        <title>PHP File Upload</title>
  7    </head>
  8    <body>
  9        <form action="upload.php" method="post" enctype="multipart/form-data" name="form1">
 10            <input type="file" name="resume" id="resume">
 11            <br>
 12            <input type="submit" name="SubmitBtn" id="SubmitBtn" value="SubmitBtn">
 13        </form>
 14    </body>
 15    </html>
```

```
Ex19 > 🐘 upload.php
  1    <!DOCTYPE html>
  2    <html lang="en">
  3    <head>
  4        <meta charset="UTF-8">
  5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
  6        <title>PHP File Upload</title>
  7    </head>
  8    <body>
  9        <?php
 10            if(isset($_POST["SubmitBtn"])) {
 11                $fileName = $_FILES["resume"]["name"];
 12                $fileSize = $_FILES["resume"]["size"] / 1024;
 13                $fileType = $_FILES["resume"]["type"];
 14                $fileTmpName = $_FILES["resume"]["tmp_name"];
 15                if($fileType == "application/vnd.openxmlformats-officedocument.wordprocessingml.document") {
 16                    $fileType = "docx file";
 17                    if ($fileSize <= 2000) {
 18                        // $random = rand(1111, 9999);
 19                        // $newFileName = $random.$fileName;
 20
 21                        // $uploadPath = "testUpload/".$newFileName;
 22                        $uploadPath = "testUpload/".$fileName;
 23
 24
 25                        if(move_uploaded_file($fileTmpName, $uploadPath)) {
 26                            echo "Successful<br>";
 27                            echo "File Name : " . $fileName."<br>";
 28                            echo "File Size : " . $fileSize . "kb<br>";
 29                            echo "File Type : " . $fileType . "<br>";
 30                        }
```
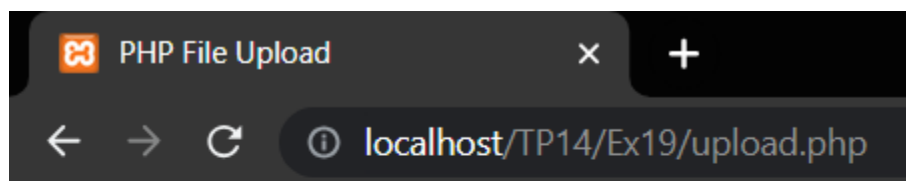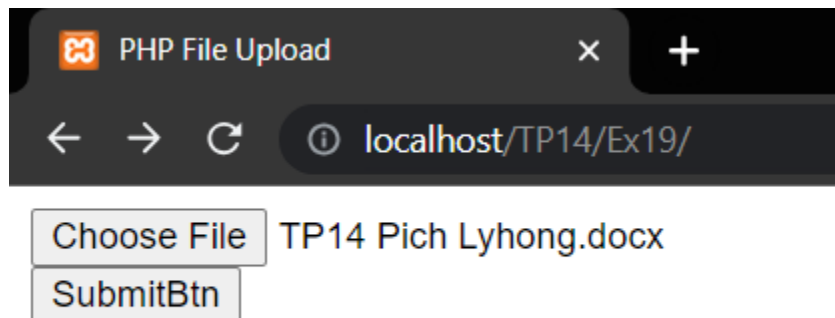
```
31                      }
32                      else {
33                          echo "Maximum upload file size limit is 2000 kb";
34                      }
35                  }
36                  else {
37                      echo "You can only upload a Word doc file.";
38                  }
39              }
40          ?>
41      </body>
42      </html>
```

- Result:

Successful
File Name : TP14 Pich Lyhong.docx
File Size : 1785.0849609375kb
File Type : docx file

Ex20: PHP Composer

```
PS C:\xampp\htdocs\TP14> composer


   _____
  / ____/___  ____ ___  ____  ____  _____  _____
 / /   / __ \/ __ `__ \/ __ \/ __ \/ ___/ _ \/ ___/
/ /___/ /_/ / / / / / / /_/ / /_/ (__  )  __/ /
\____/\____/_/ /_/ /_/ .___/\____/____/\___/_/
                    /_/
Composer version 2.5.8 2023-06-09 17:13:21
```

- Source code:

```php
Ex20 > index.php
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <title>PHP Composer</title>
7    </head>
8    <body>
9        <?php
10           require "vendor/autoload.php";
11           use Intervention\Image\ImageManagerStatic as Image;
12           $Image = Image::make("upload/image.png")->resize(200, 200)->save("img/thumbnail.png", 100);
13       ?>
14   </body>
15   </html>
```
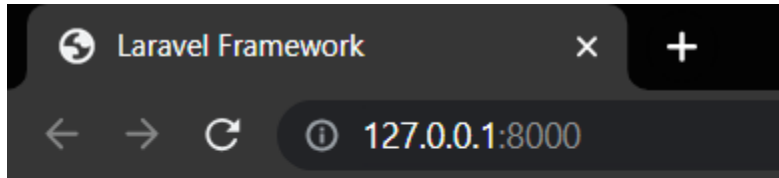
Self-Learn: Laravel PHP framework

- Describe directory structure of Laravel project
    - app: The core of application which contains subdirectories: models, controllers, domain
    - bootstrap: contains app.php file which bootstraps the framework
    - config: contains all configuration files of the application
    - database: contains database migrations, model factories, and seeds
    - public: contains index.php file which is the entry point for all requests entering to the application and configures autoloading
    - resources: contains views directory which represent the website view of the application
    - routes: contains all of the route definitions for your application

- storage: contains the logs, sessions, file caches and other files generated by framework
- test: to test your application whether there exist errors
- vendor: contains composer dependencies
- Setup your first Laravel project to say "Hello world"
  - Command: laravel new "Self Learn"
  - Result:

Hello World