



Institute of Technology of  
Cambodia

# TP14

## Internet Programming

05/June/2023

HENG VISOTHI

| ID: e20190282

I4-GIC (A)

## INTERNET PROGRAMMING

Mr. HOK TIN

## Exercise1: Constant Definition in PHP

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Constant Definition in PHP</title>
</head>
<body>
  <?php
    define("EMAIL", "hengvisothi@gmail.com<br>");
    echo EMAIL;

    define("myCon", true);
    if(myCon) {
      echo "True<br>";
    }
    define("ONECONSTANT", "some value<br>");

    define("CONSTANT", "Hello world.<br>");
    echo CONSTANT;
  ?>
</body>
</html>
```

hengvisothi@gmail.com

True

Hello world.

## Exercise2: String Concatenation in PHP

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>String Concatenation in PHP</title>
</head>
<body>
  <?php
    $like = "I like php";
    $num = 7;
    echo $like . $num;

    echo "<p>";
    echo $like . " " . $num;
    echo "</p>";

    echo "My favorite php version is $num";
  ?>
</body>
</html>
```

I like php7

I like php 7

My favorite php version is 7

## Exercise3: Operators in PHP (Part1)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Operators in PHP(Part1)</title>
</head>
<body>
  <?php
    $var = 1;
    echo $var++, "<br>";
    echo ++$var, "<br>";
    echo --$var, "<br>";
    echo $var--, "<br>";
  ?>
</body>
</html>
```

1  
3  
2  
2

## Exercise4: Operators in PHP (Part2)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Operators in PHP(Part2)</title>
</head>
<body>
  <?php
    $var = "value";
    echo $var."<br>";
    $var = 1;
    echo $var."<br>";
    $var += 3;
    echo $var."<br>";
  ?>
</body>
</html>
```

value

1  
4

## Exercise5: Concatenation

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Concatenation</title>
</head>
<body>
  <?php
    $name = "John";
    $lastName = "Travolta";
    echo $name." ".$lastName;

    $a = "Hello";
    $a .= "John!";
    echo $a;
  ?>
</body>
</html>
```

John TravoltaHelloJohn!

## Exercise6: PHP Decision Making (If-Else)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PHP Decision Making (If - Else Statement)</title>
</head>
<body>
  <?php
    $date = date("m-d");

    if($date == "07-10") {
      echo "Wishing you a very Happy Birthday";
    }
    else{
      echo "Not your Birthday today";
    }
  ?>
</body>
</html>
```

Not your Birthday today

## Exercise7: PHP Decision Making (If-Else, if-else)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PHP Decision Making (If - Elseif - Else Statement)</title>
</head>
<body>
  <?php
    $date = date("m-d");

    if($date == "07-10") {
      echo "Wishing you a very Happy Birthday";
    }
    else if($date == "08-15") {
      echo "Happy Independence Day";
    }
    else {
      echo "Sorry";
    }
  ?>
</body>
</html>
```

Sorry

## Exercise8: PHP Decision Making (Switch)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PHP Decision Making (Switch Statement)</title>
</head>
<body>
  <?php
    $myFavColor = 'red';
    switch ($myFavColor) {
      case 'pink':
        echo 'My favorite car color is pink!';
        break;
      case 'red':
        echo 'My favorite car color is red!';
        break;
      case 'orange':
        echo 'My favorite car color is orange!';
        break;
      default:
        echo 'My favorite car color is not pink, red or orange!';
    }
  ?>
</body>
</html>
```

My favorite car color is red!

## Exericse9: PHP Loops (While loops)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PHP Loops (While Loop)</title>
</head>
<body>
  <?php
    $i = 1;

    while($i <= 5) {
      echo "Hello while $i times."<br>;
      $i++;
    }
  ?>
</body>
</html>
```

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

## Exercise10: PHP Loops (Do while loops)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PHP Loops (Do While Loop)</title>
</head>
<body>
  <?php
    $i = 0;
    do{
      $i++;
      echo "php do...while loop $i times."<br>;
    }while($i <= 5);
  ?>
</body>
</html>
```

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



## Exercise11: PHP Loops (For loops)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PHP Loops (For Loop)</title>
</head>
<body>
  <?php
    for ($i=1; $i <= 5; $i++) {
      echo "PHP for loop print $i times"."<br>";
    }
  ?>
</body>
</html>
```

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

## Exercise12: PHP Loops (Foreach loops)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PHP Loops (Foreach Loop)</title>
</head>
<body>
  <?php
    $salary[] = 2000;
    $salary[] = 3000;
    $salary[] = 5000;

    foreach($salary as $value) {
      echo "Salary: $value<br>";
    }
  ?>
</body>
</html>
```

Salary: 2000  
Salary: 3000  
Salary: 5000



## Exercise 13: PHP Array (Numeric array)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PHP Array (Numeric Array)</title>
</head>
<body>
  <?php
    $age = array("Peter"=>"35", "Ben"=>"37", "Joe"=>"43");

    foreach($age as $x => $val) {
      echo "$x = $val<br>";
    }
  ?>
</body>
</html>
```

Peter = 35  
Ben = 37  
Joe = 43

## Exercise 14: PHP Array (Multi-dimensional)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PHP Array (Multi-dimensional)</title>
</head>
<body>
  <?php
    $multiDArray = array(
      "A" => array(0 => "red", 2 => "blue", 3 => "green"),
      "B" => array(1 => "orange", 2 => "black"),
      "C" => array(0 => "white", 4 => "purple", 8 => "grey")
    );

    echo $multiDArray["A"][3];
    echo "<br>";
    echo $multiDArray["C"][8];
  ?>
</body>
</html>
```

green  
grey

## Exercise15: PHP Session

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PHP Session</title>
</head>
<body>
  <?php
    session_start();

    $_SESSION["username"] = "visothi";
    $_SESSION["email"] = "visothi@gmail.com";

    echo $_SESSION["username"];
    echo "<br>";
    echo $_SESSION["email"];
  ?>
</body>
</html>
```

visothi  
visothi@gmail.com

## Exercise16: PHP Post Form Handling

```
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 </body>
18 </html>
```

```
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>
```

Name:

Email:

## Exercise 17: PHP Get Form Handling

```
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>
```

```
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>
```

Name:  Email:

Welcome sothi! Your email address is sothi@gmail.com

## Exercise 18: Sample HTML Forms

```
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>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Sample HTML Forms</title>
</head>
<body>
  <?php
    if(isset($_POST['Submit'])) {
      $emp_name = trim($_POST['emp_name']);
      $emp_number = trim($_POST['emp_number']);
      $emp_email = trim($_POST['emp_email']);

      if($emp_name == "") {
        $errorMsg = "error: Please enter number.";
        $code = "2";

        echo $errorMsg."<br>Error code: ".$code;
      }

      elseif (is_numeric(trim($emp_number)) == false) {
        $errorMsg = "error: Please enter numeric value.";
        $code = "2";

        echo $errorMsg."<br>Error code: ".$code;
      }

      elseif ($emp_email == "") {
        $errorMsg = "error : You did not enter an email.";
        $code = "3";

        echo $errorMsg."<br>Error code: ".$code;
      }

      elseif (!preg_match("/^[_\.0-9a-zA-Z-]+@[0-9a-zA-Z]{1}([0-9a-zA-Z-]+\.)+[a-zA-Z]{2,6}$/i", $emp_email)) {
        $errorMsg = "error : You did not enter a valid email.";
        $code = "3";

        echo $errorMsg."<br>Error code: ".$code;
      }

      else {
        echo "Success";
      }
    }
  ?>
</body>
</html>
```

Name: sothi

Number: 012345678

Email: sothi@gmali.com

Submit

Success

## Exercise 19: PHP File Upload

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PHP File Upload</title>
</head>
<body>
  <form action="upload.php" method="post" enctype="multipart/form-data" name="form1">
    <input type="file" name="resume" id="resume">
    <br>
    <input type="submit" name="SubmitBtn" id="SubmitBtn" value="SubmitBtn">
  </form>
</body>
</html>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PHP File Upload</title>
</head>
<body>
  <?php
    if(isset($_POST["SubmitBtn"])) {
      $fileName = $_FILES["resume"]["name"];
      $fileSize = $_FILES["resume"]["size"] / 1024;
      $fileType = $_FILES["resume"]["type"];
      $fileTmpName = $_FILES["resume"]["tmp_name"];
      if($fileType == "application/vnd.openxmlformats-officedocument.wordprocessingml.document") {
        $fileType = "docx file";
        if ($fileSize <= 2000) {
          // $random = rand(1111, 9999);
          // $newFileName = $random.$fileName;

          // $uploadPath = "testUpload/".$newFileName;
          $uploadPath = "testUpload/".$fileName;

          if(move_uploaded_file($fileTmpName, $uploadPath)) {
            echo "Successful<br>";
            echo "File Name : " . $fileName."<br>";
            echo "File Size : " . $fileSize . " kb<br>";
            echo "File Type : " . $fileType . "<br>";
          }
        }
        else {
          echo "Maximum upload file size limit is 2000 kb";
        }
      }
      else {
        echo "You can only upload a Word doc file.";
      }
    }
  }
```

```
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>
```



Choose File

visothi.docx

SubmitBtn

Successful  
File Name : visothi.docx  
File Size : 11.7392578125kb  
File Type : docx file

## Exercise20: PHP Composer

```
PS E:\htdocs\gic2022> composer
```

```

/_____/
/_____/
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>PHP Composer</title>
</head>
<body>
  <?php
    require "vendor/autoload.php";
    use Intervention\Image\ImageManagerStatic as Image;
    $Image = Image::make("upload/image.png")->resize(200, 200)->save("img/thumbnail.png", 100);
  ?>
</body>
</html>
```

- Self-learn Laravel PHP Framework

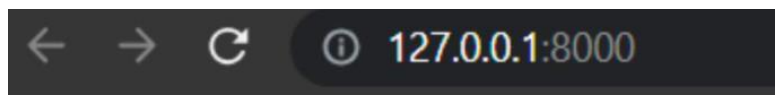
- o Describe directory structure of Laravel framework

- ☐ App: Contains the core code of the application.
    - ☐ Bootstrap: Contains the files that bootstrap the framework and configure autoloading.
    - ☐ Config: Contains configuration files.
    - ☐ Database: Contains database migration files and seeds
    - ☐ Public: Contains the front controller and assets such as Images, Javascript, and CSS.
    - ☐ Resources: Contains views raw assets such as LESS and SASS files and localization files.
    - ☐ Routes: Contains route definition.
    - ☐ Storage: Contains compiled Blade templates, file based, sessions, file caches, and other files generated by the framework.
    - ☐ Tests: Contains automated tests.
    - ☐ Vendor: Contains Composer dependencies.

- Set up your first Laravel project to say “helloworld”

- o Command: `Laravel new “Self Learn”`

- o Result:SA



**Hello World**