

Week 4

Lab 3

web2

Dr : Rasha

Eng : Gehad Mustafa



Superglobals

Super global variables are built-in variables that are always available in all scopes.

➤ [\\$GLOBALS](#)

➤ [\\$SERVER](#)

➤ [\\$REQUEST](#)

➤ [\\$POST](#)

➤ [\\$GET](#)

\$GLOBALS

\$GLOBALS is a [superglobal](#) variable used to access global variables from anywhere in the PHP program. PHP stores all global variables in an array called **\$GLOBALS[index]** → The *index* holds the name of the variable.

```
1  <?php
2  $x = 75;
3  $y = 25;
4
5  function addition() {
6      $GLOBALS['z'] = $GLOBALS['x'] + $GLOBALS['y'];
7  }
8  addition();
9  echo $z;
10 ?>
```

100

`$_SERVER`

`$_SERVER` is a PHP super global variable which holds information about headers, paths, and script locations.

<code>\$_SERVER['REMOTE_ADDR']</code>	Returns the IP address from where the user is viewing the current page
<code>\$_SERVER['REQUEST_METHOD']</code>	Returns the request method used to access the page (such as POST)
<code>\$_SERVER['SCRIPT_NAME']</code>	Returns the path of the current script
<code>\$_SERVER['PHP_SELF']</code>	Returns the filename of the currently executing script

\$_SERVER

\$_SERVER is a PHP super global variable which holds information about headers, paths, and script locations.

```
ll.php
1  <?php
2  echo $_SERVER[ 'REQUEST_METHOD' ];
3  echo "<br>";
4  echo $_SERVER[ 'SERVER_NAME' ];
5  echo "<br>";
6  echo $_SERVER[ 'SERVER_ADDR' ];
7  echo "<br>";
8  echo $_SERVER[ 'PHP_SELF' ]
9
10  ?>
```

GET
localhost
::1
/p1/ll.php

GET vs POST

	POST Request	VS	GET Request
Send Data	Request body		URL
Visibility	Not displayed in the URL		Visible in the URL
Security	Confidential data		Non-Confidential data
Data Size	Big Data		Small Data

\$_GET

- The Hypertext Transfer Protocol(HTTP) Get method is mainly used on the client (Browser) side to send a request to a specified server to get certain data or resources.
- Using this method the server should only let us receive the data and not change its state. Hence it is only used to view something and not to change it.
- The Get method is one of the most used HTTP methods.
- The request parameter of the get method is appended to the URL. Get request is better for the data which does not need to be secure.

\$_GET

```
2  <?php
3  |   $name = $_GET['fname'];
4  |   echo $name;
5  |   ?>
6
7  <form>
8  |   Name: <input type="text" name="fname">
9  |   <input type="submit">
10 </form>
```

Warning: Undefined array key "fname" in C:\xampp\htdocs\p1\ll.php on line 3

Name:

gehad

Name:

\$_GET

isset() Function Check whether a variable is empty.

Also check whether the variable is set/declared:

```
2  <?php
3  if (isset($_GET['fname'])){
4      $name = $_GET['fname'];
5      if (empty($name)) {
6          echo "Name is empty";
7      } else {
8          echo $name;
9      }
10 }
11 ?>
12 <form>
13     Name: <input type="text" name="fname">
14     <input type="submit">
15 </form>
```

localhost/p1/ll.php

Chat, Meetings, Call... Gmail YouTube [P] List of sites/pro... 2202.

Name: Submit

localhost/p1/ll.php?fname=gehad

Chat, Meetings, Call... Gmail YouTube [P] List of sites/pro... 22

gehad
Name: Submit

\$ POST

```
1
2 <?php
3 if (isset($_POST['fname'])) {
4     $name = $_POST['fname'];
5     if (empty($name)) {
6         echo "Name is empty";
7     } else {
8         echo $name;
9     }
10 }
11 ?>
12 <form method="POST">
13     Name: <input type="text" name="fname">
14     <input type="submit">
15 </form>
16
```

localhost/p1/ll.php

Chat, Meetings, Call... Gmail YouTube [P] List of sites/pro...

Name: Submit

localhost/p1/ll.php

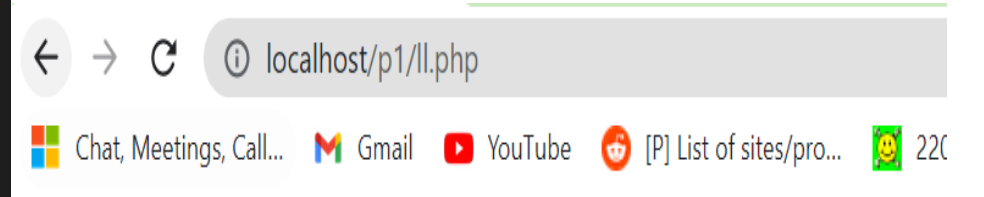
Chat, Meetings, Call... Gmail YouTube [P] List of sites/pro... 2

gehad
Name: Submit

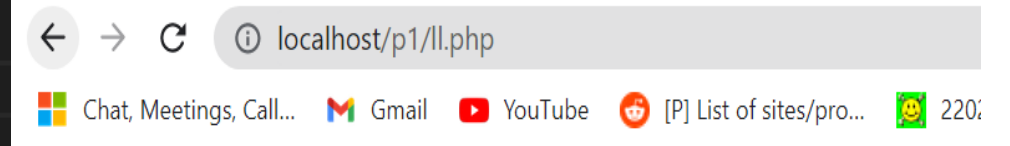
\$_REQUEST

\$_REQUEST is a PHP super global variable which contains submitted form data, and all cookie data.
In other words, \$_REQUEST is an array containing data from \$_GET, \$_POST, and \$_COOKIE.

```
2  <?php
3  if (isset($_REQUEST['fname'])) {
4      $name = $_REQUEST['fname'];
5      if (empty($name)) {
6          echo "Name is empty";
7      } else {
8          echo $name;
9      }
10 }
11 ?>
12 <form method="POST">
13     Name: <input type="text" name="fname">
14     <input type="submit">
15 </form>
```



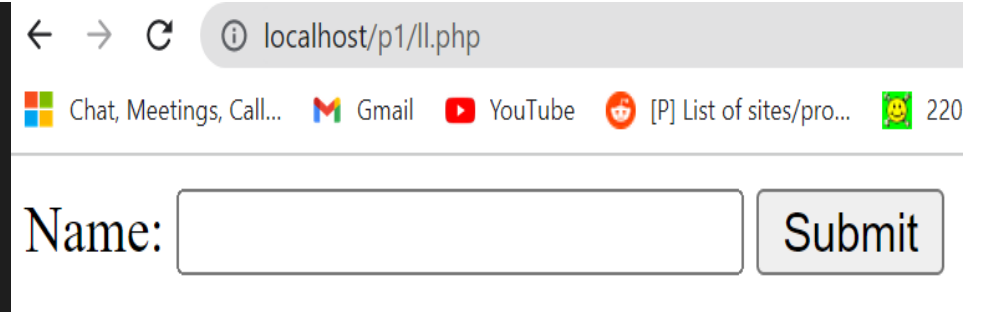
A screenshot of a web browser window. The address bar shows 'localhost/p1/ll.php'. Below the address bar is a navigation bar with icons for Chat, Meetings, Call..., Gmail, YouTube, and a list of sites. The main content area shows the text 'Name:' followed by an empty text input field and a 'Submit' button.



A screenshot of a web browser window, identical to the one above. The address bar shows 'localhost/p1/ll.php'. The main content area shows the text 'Name:' followed by a text input field containing the text 'gehad' and a 'Submit' button.

Action

```
1  <?php
2  if ($_SERVER["REQUEST_METHOD"] == "POST") {
3      // collect value of input field
4      $name = $_REQUEST['fname'];
5      if (empty($name)) {
6          echo "Name is empty";
7      } else {
8          echo $name;
9      }
10 }
11 ?>
12 <form method="post" action="<?php echo $_SERVER['PHP_SELF'];?>">
13     Name: <input type="text" name="fname">
14     <input type="submit">
15 </form>
```

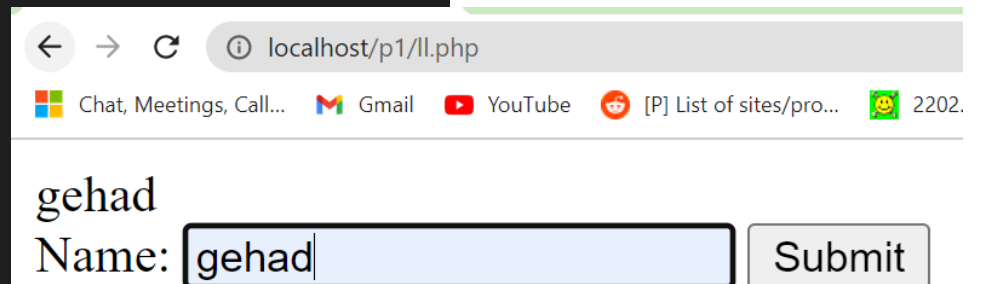


A screenshot of a web browser window. The address bar shows 'localhost/p1/ll.php'. The browser's tab bar includes icons for Chat, Meetings, Call..., Gmail, YouTube, and a reddit icon with the text '[P] List of sites/pro...'. The page content shows the text 'Name:' followed by an empty text input field and a 'Submit' button.

localhost/p1/ll.php

Chat, Meetings, Call... Gmail YouTube [P] List of sites/pro... 220

Name: Submit



A second screenshot of the same web browser window. The address bar and tab bar are identical. The page content now shows the text 'gehad' above the text input field, which now contains the value 'gehad'. The 'Submit' button remains.

localhost/p1/ll.php

Chat, Meetings, Call... Gmail YouTube [P] List of sites/pro... 220.

gehad
Name: Submit

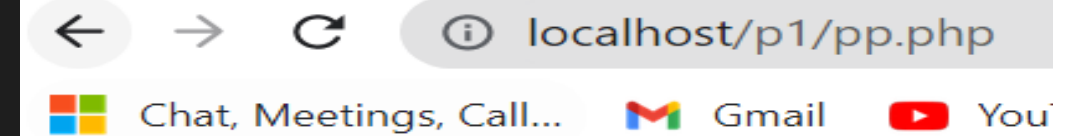
Action

```
2 <form method="post" action="pp.php">
3   Name: <input type="text" name="fname">
4   <input type="submit">
5 </form>
```

```
pp.php > ...
1 <?php
2 if ($_SERVER["REQUEST_METHOD"] == "POST") {
3     // collect value of input field
4     $name = $_REQUEST['fname'];
5     if (empty($name)) {
6         echo "Name is empty";
7     } else {
8         echo $name;
9     }
10 }
11 ?>
```



Name:



gehad

Try 1

- Try to write a php program to make a calculator and then concatenate it with front end by using post method and action.

Calculator

Operand 1:

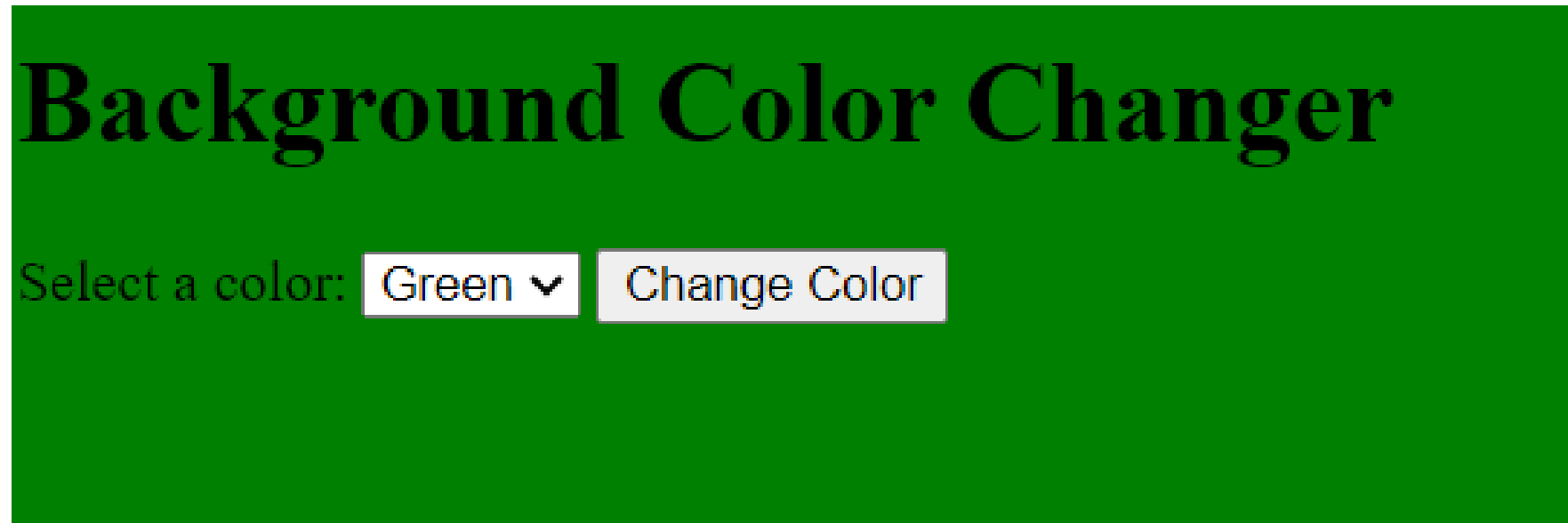
Operator:

Operand 2:

Result: 2

Try 2

- Try to write a php program to change the background color of the homepage by user selection.



Background Color Changer

Select a color: Green ▼ Change Color

The image shows a web application interface. The background is a solid green color. At the top, the text 'Background Color Changer' is displayed in a large, bold, black serif font. Below this, there is a label 'Select a color:' followed by a dropdown menu showing 'Green' with a downward arrow, and a button labeled 'Change Color'.

Try 1

```
lab_1.php
1  <?php
2  // Initialize variables
3  $result = '';
4
5
6  // Check if the form is submitted
7  if ($_SERVER['REQUEST_METHOD'] === 'POST') {
8      // Retrieve the form data
9      $operand1 = $_POST['operand1'];
10     $operand2 = $_POST['operand2'];
11     $operator = $_POST['operator'];
12
13     // Perform the calculation based on the operator
14     switch ($operator) {
15         case '+':
16             $result = $operand1 + $operand2;
17             break;
18         case '-':
19             $result = $operand1 - $operand2;
20             break;
21         case '*':
22             $result = $operand1 * $operand2;
23             break;
24         case '/':
25             if ($operand2 != 0) {
26                 $result = $operand1 / $operand2;
27             } else {
28                 $result = 'Division by zero is not allowed.';
29             }
30             break;
31         default:
32             $result = 'Invalid operator.';
33     }
34 }
35 ?>
```

```
37 <!DOCTYPE html>
38 <html>
39 <head>
40     <title>Calculator</title>
41 </head>
42 <body>
43     <h1>Calculator</h1>
44
45     <form method="post" action="<?php echo $_SERVER['PHP_SELF']; ?>">
46         <label for="operand1">Operand 1:</label>
47         <input type="number" name="operand1" id="operand1" required>
48         <br>
49         <label >Operator:</label>
50         <select name="operator" id="operator">
51             <option value="+">+</option>
52             <option value="-">-</option>
53             <option value="*">*</option>
54             <option value="/">/</option>
55         </select>
56         <br>
57         <label for="operand2">Operand 2:</label>
58         <input type="number" name="operand2" id="operand2" required>
59         <br>
60         <input type="submit" value="Calculate">
61     </form>
62
63     <h2>Result: <?php echo $result; ?></h2>
64 </body>
65 </html>
```


Try 2

```
lab_1.php
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <title>Background Color Changer</title>
5      <style>
6          body {
7              background-color: <?php echo isset($_POST['color']) ? $_POST['color'] : 'white'; ?>;
8          }
9      </style>
10 </head>
11 <body>
12     <h1>Background Color Changer</h1>
13
14     <form method="post" action="<?php echo $_SERVER['PHP_SELF']; ?>">
15         <label>Select a color:</label>
16         <select name="color" id="color">
17             <option value="white">White</option>
18             <option value="red">Red</option>
19             <option value="green">Green</option>
20             <option value="blue">Blue</option>
21         </select>
22         <input type="submit" value="Change Color">
23     </form>
24 </body>
25 </html>
```