

# **Indian Institute of Information Technology Surat**



## **Lab Report on Web Engineering (CS 603) Practical**

**Submitted by**

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## Lab No: 4

### Aim: PHP - Working with String, Array, and Loops

#### Description: Perform all the 8 Tasks:

1. Write a script to check if the input string consists of lowercase characters only.
2. Write a PHP script to remove whitespaces from a string.
3. Write a PHP script that checks if a string contains another string.
4. Write a simple PHP program to check that emails are valid. Hint: String should contain @ and . compulsorily. Also, should be after @ only and so on.
5. \$color = array('white', 'green', 'red'). Write a PHP script which will display the colors in the following way :  
Output : white, green, red
  - white
  - green
  - red
6. Write a PHP script to replace the first 'the' of the following string with 'That'.  
Sample : 'the IIIT Surat is located in Kholvad, Kamrej'.
7. Write a PHP program to create a new string where 'if' is added to the front of a given string. If the string already begins with 'if', return the string unchanged.  
Sample Input:  
"if else"  
"else"  
"if"  
Sample Output:  
if else  
if else  
if
8. Demonstrate the working of GET and Post methods of form element in HTML. Also, read the information of the input tag using \$\_GET and \$\_POST method using PHP.

### Source Code:

#### HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Working with String, Array, and Loops</title>
</head>
<body>
  <form method="post" action="q1.php">
    <label for="inputString">(Task 1) => Enter a string:</label>
    <input type="text" name="inputString" id="inputString" required>
    <input type="submit" value="Check Lowercase">
  </form>
  <form method="post" action="q2.php">
    <label for="inputString">(Task 2) => Enter a string:</label>
    <input type="text" name="inputString" id="inputString" required>
    <input type="submit" value="Remove Whitespaces">
  </form>
```

```

<form method="post" action="q3.php">
    <label for="mainString">(Task 3) => Enter the main string:</label>
    <input type="text" name="mainString" id="mainString" required>
    <label for="subString">Enter the substring to check:</label>
    <input type="text" name="subString" id="subString" required>
    <input type="submit" value="Check Substring">
</form>
<form method="post" action="q4.php">
    <label for="email">(Task 4) => Enter an email:</label>
    <input type="text" name="email" id="email" required>
    <input type="submit" value="Check Email">
</form>
<form method="post" action="q5.php">
    <label for="submitButton">(Task 5) => Press the button:</label>
    <input type="submit" value="Display Colors">
</form>
<form method="post" action="q6.php">
    <label for="inputString">(Task 6) => Enter a string:</label>
    <input type="text" name="inputString" id="inputString" required>
    <input type="submit" value="Replace 'the' ">
</form>
<form method="post" action="q7.php">
    <label for="inputString">(Task 7) => Enter a string:</label>
    <input type="text" name="inputString" id="inputString" required>
    <input type="submit" value="Add 'if' to Front">
</form>
<form method="get" action="q8.php">
    <label for="name">(Task 8 GET) => Name:</label>
    <input type="text" name="name" id="name">
    <input type="submit" value="Submit">
</form>
<form method="post" action="q8.php">
    <label for="surname">(Task 8 POST) => Surname:</label>
    <input type="text" name="surname" id="surname">
    <input type="submit" value="Submit">
</form>
</body>
</html>

```

#### Task 1:

```

<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $inputString = $_POST["inputString"];
    if (ctype_lower($inputString)) echo "The input string consists of lowercase characters only.";
    else echo "The input string contains non-lowercase characters.";
}
?>

```

#### Task 2:

```

<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $inputString = $_POST["inputString"];
    $resultString = str_replace(' ', '', $inputString);
    echo "String after removing whitespaces: $resultString";
}

```

```
}  
?>
```

### Task 3:

```
<?php  
if ($_SERVER["REQUEST_METHOD"] == "POST") {  
    $mainString = $_POST["mainString"];  
    $subString = $_POST["subString"];  
    if (strpos($mainString, $subString) !== false) echo "The main string contains the specified  
substring.";  
    else echo "The main string does not contain the specified substring.";  
}  
?>
```

### Task 4:

```
<?php  
if ($_SERVER["REQUEST_METHOD"] == "POST") {  
    $email = $_POST["email"];  
    if (filter_var($email, FILTER_VALIDATE_EMAIL)) echo "The email is valid.";  
    else echo "The email is not valid.";  
}  
?>
```

### Task 5:

```
<?php  
$colors = array('white', 'green', 'red');  
echo "Output: " . implode(', ', $colors) . "<br>";  
foreach ($colors as $color) echo "<li>$color</li>";  
?>
```

### Task 6:

```
<?php  
if ($_SERVER["REQUEST_METHOD"] == "POST") {  
    $inputString = $_POST["inputString"];  
    $resultString = preg_replace('/\bthe\b/', 'That', $inputString, 1);  
    echo "String after replacement: $resultString";  
}  
?>
```

### Task 7:

```
<?php  
if ($_SERVER["REQUEST_METHOD"] == "POST") {  
    $inputString = $_POST["inputString"];  
    if (substr($inputString, 0, 2) !== 'if') $resultString = 'if ' . $inputString;  
    else $resultString = $inputString;  
    echo "Result string: $resultString";  
}  
?>
```

### Task 8:

```
<?php  
if ($_SERVER["REQUEST_METHOD"] == "GET") {  
    if (isset($_GET["name"])) {  
        $name = $_GET["name"];  
        echo "Name submitted using GET method: $name";  
    }  
} elseif ($_SERVER["REQUEST_METHOD"] == "POST") {  
    if (isset($_POST["surname"])) {
```

```

    $surname = $_POST["surname"];
    echo "Surname submitted using POST method: $surname";
}
} else echo "Invalid request method.";
?>

```

## Output:

### HTML:

← → ↻ ⓘ localhost/ind1\_8.html

(Task 1) => Enter a string:

(Task 2) => Enter a string:

(Task 3) => Enter the main string:  Enter the substring to check:

(Task 4) => Enter an email:

(Task 5) => Press the button:

(Task 6) => Enter a string:

(Task 7) => Enter a string:

(Task 8 GET) => Name:

(Task 8 POST) => Surname:

### Task 1:

← → ↻ ⓘ localhost/q1.php

The input string consists of lowercase characters only.

### Task 2:

← → ↻ ⓘ localhost/q2.php

String after removing whitespaces: hellsf

### Task 3:

← → ↻ ⓘ localhost/q3.php

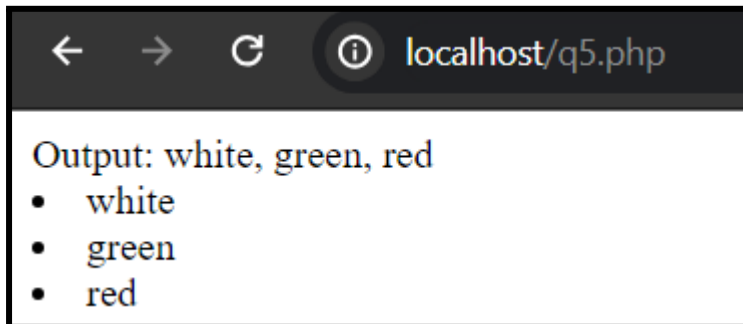
The main string contains the specified substring.

### Task 4:

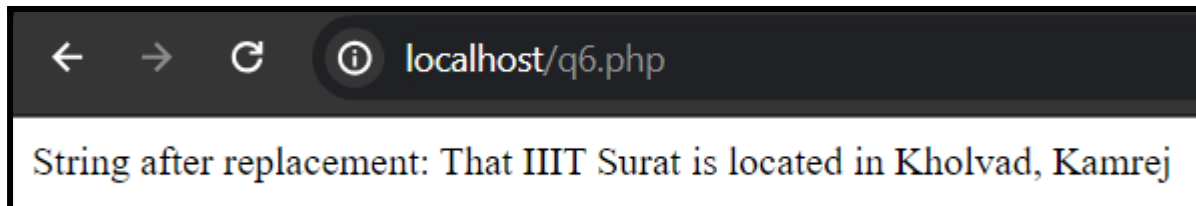
← → ↻ ⓘ localhost/q4.php

The email is valid.

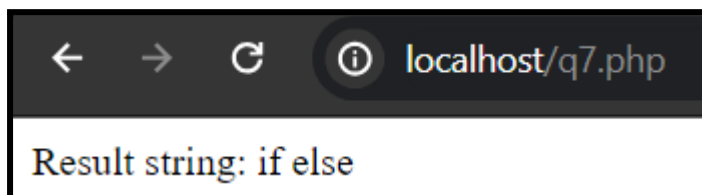
#### Task 5:



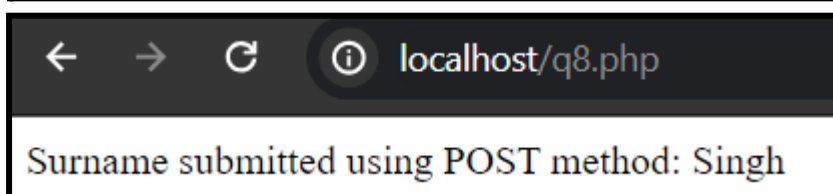
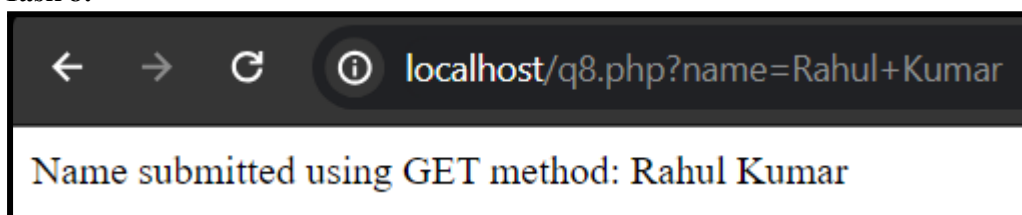
#### Task 6:



#### Task 7:



#### Task 8:



### Conclusion:

- HTML forms use methods like GET and POST to send data to the server.
- PHP processes form data based on the request method (GET/POST).
- Proper syntax and validation are crucial for robust form handling.