Program: Information Technology and Computer Engineering
(*NBA Accredited*)
Course: Web Based Application Development with PHP (22619)

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Experiment No: 10

Design web page using following form controls.
a) Text box
b) Radio button
c) Check box
d) Button

Resources required:

Hardware	Software
Computer System	XAMPP

Knowledge required:

Students should know about the designing forms in HTML along with GET and POST method.

Practical Significance:

HTML Forms are required, when you want to collect some data from the site visitor. For example, during user registration you would like to collect information such as name, email address, credit card, etc. A form will take input from the site visitor and then will post it to a back-end application such as CGI, ASP Script or PHP script etc. The back-end application will perform required processing on the passed data based on defined business logic inside the application.

Theoretical Background:

GET Method
This is the built in PHP super global array variable that is used to get values submitted via HTTP GET method. Data in GET method is sent as URL parameters that are usually strings of name and value pairs separated by ampersands (&). URL with GET data look like this:
http://www.abc.com/dataread.php?name=ram&age=20.
The name and age in the URL are the GET parameters; ram and 20 are the value of those parameters. More than one parameter=value can be embedded in the URL by concatenating with ampersands (&).

POST Method
This is the built in PHP super global array variable that is used to get values submitted via HTTP POST method. Data in POST method is sent to the server in a form of a package in a separate communication with the processing script. User entered Information is never visible in the URL query string as it is visible in GET. The POST method can be used to send the much larger amount of data and text data as well as binary data (uploading a file).

Form Controls

The HTML <form> element defines a form which contains form controls that are used to collect user input. Example text fields, text area, checkboxes, radio buttons, list, submit buttons and more.

Text Field

Text Field is used to take a single line input from the user. Text Field will be included in <form> element of a web page that will be used to take user input, which will be sent to PHP script available on the server. Data on the server will be fetched by any one of the super global variable $_GET and $_POST, after receiving it will be processed and the result will be sent to the user in a form of response.

Text Area

Text Area is used to take multi line input from the user.

Text Area will be included in <form> element of a web page that will be used to take multi line input like suggestions, address, feedback from users, which will be sent to PHP script available on the server.Data on the server will be fetched by any one of the super global variable $_GET and $_POST, after receiving it will be processed and the result will be sent to user in a form of response.

Radio Button

Radio Button is used to make the user select single choice from a number of available choices. Radio Button will be included in <form> element of a web page that will be used single choice input from the user, which will be sent to PHP script available on the server. Data on the server will be fetched by any of the super global variable $_GET and $_POST, after receiving it will be processed and the result will be sent to the user in a form of response.

Check Box

Check Box is used to select one or more options from available options displayed for selection. Check Box will be displayed as square box which will be activated when ticked (checked). Check Box will be included in <form> element of a web page that will be used to take user input, which includes multiple options like hobbies, where user can select one or more hobby form the multiple hobbies displayed on a web page, which will be sent to PHP script available on the server.Data on the server will be fetched by any one of the super global variable $_GET and $_POST, after receiving it will be processed and the result will be sent to the user in a form of response.

Buttons

Button is created using <button> tag. Text and Image can be displayed on the button by placing the text or image between the opening and closing tags of button. Buttons has to be added with actions using JavaScript or by associating the button with a form. In we are creating button in form <input> tag is used to create a button.

Program Code:

checkboxdemo.html
```
<html>
<head>
<title> Text Field Demo</title>
</head>
<body>
<form method="get" action="phpcheckboxdemo.php">
<label>Select your Hobbies:</label>
<input type="checkbox" name="cricket" value="Cricket" checked > Cricket
<input type="checkbox" name="football" value="Football"> Football
<input type="checkbox" name="basketball" value="Basket Ball" > Basket Ball
<input type="submit" value="Submit">
</form>
</body>
</html>
```
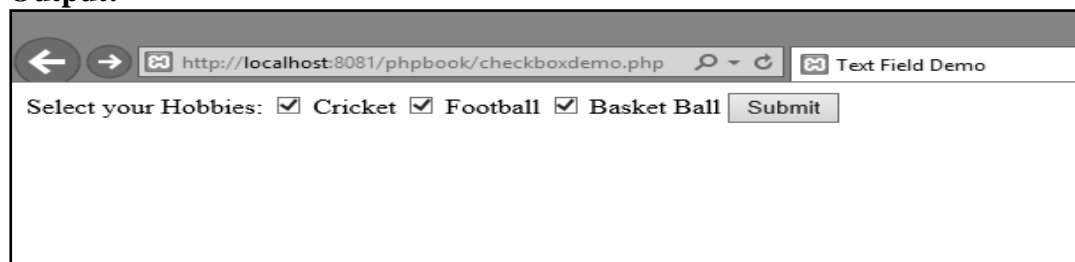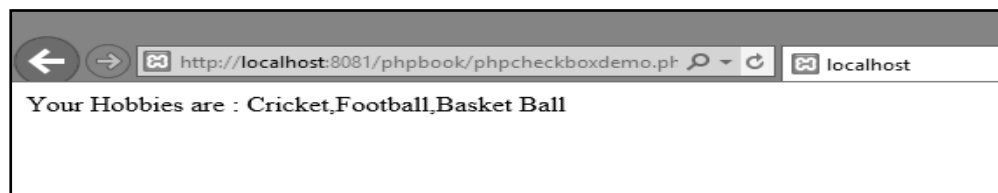
New file saved as **phpcheckboxdemo.php**

```
<?php
   echo "<p>Your  Hobbies  are  :  "  .  $_GET["cricket "]  .",". $_GET["football0"]  .","  .
$_GET["basketball"] . " </p>";

?>
```

Output:

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Practical related questions:

1.What is the difference between get and post methods?
Data sent through get method is unsecured
Data sent through post method is secured

2. What is the use of isset() function?

Invoked when we check overloaded properties with isset() function

Exercise:

1. Write a PHP program that demonstrate form element Text box, Radio button, Check box, Button.
   HTML:

```html
<!-- FORM HTML -->


<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <form method="get" action="form.php">
        Enter Text: <input type="text" name="text" id="text"><br>
        Select Radio <br>
        <input type="radio" id="radio1" value="radio1" name="radio"> Ra
dio 1 <br>
        <input type="radio" id="radio2" value="radio2" name="radio"> Ra
dio 2 <br>
        <input type="radio" id="radio3" value="radio3" name="radio"> Ra
dio 3 <br>

        Select Checkbox <br>
        <input type="checkbox" id="checkbox1" value="checkbox1" name="c
heckbox1"> Checkbox 1 <br>
        <input type="checkbox" id="checkbox2" value="checkbox2" name="c
heckbox2"> Checkbox 2 <br>

        <input type="submit" value="Submit" >


    </form>
</body>
</html>
```

PHP:

```php
<!--FORM PHP -->
```

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```php
<?php

    $text = $_GET['text'];
    $radio = $_GET['radio'];
    $checkbox1 = $_GET['checkbox1'];
    $checkbox2 = $_GET['checkbox2'];

    echo "Text: " .$text;
    echo "<br />";
    echo "Radio: " .$radio;
    echo "<br />";
    if($checkbox1) {
        echo "Checkbox 1 ticked";
    }
    echo "<br />";
    if($checkbox2) {
        echo "Checkbox 2 ticked";
    }
?>



<!-- Output -->
<!-- Text: jayesh
Radio: radio3
Checkbox 1 ticked
Checkbox 2 ticked  -->
```

2. Perform arithmetic operations using text filed and buttons and result should be displayed on same page (Use PHP_SELF).

```html
<!-- Arithmetic PHP -->
<!-- Arithmetic HTML -->

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Arithmetic</title>
</head>
<body>
    <h1>Addition</h1>
    <form action="arithmetic.php" method="get" >
        Enter Number 1: <input type="number" name="n1" >
        Enter Number 2: <input type="number" name="n2" >
        <input type="submit" value="submit">
    </form>
```

```php
</body>
</html>
<?php


    $n1 = $_GET['n1'];
    $n2 = $_GET['n2'];
    echo "Addition of " .$n1. " and " .$n2. " : " . ($n1 + $n2);


?>


<!-- Output -->
<!-- Addition of 11 and 20 : 31 -->
```

3. Perform arithmetic operations using text filed and buttons and result should be displayed on another page.

HTML:

```html
<!-- Arithmetic HTML -->
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Arithmetic</title>
</head>
<body>
    <h1>Addition</h1>
    <form action="result.php" method="get" >
        Enter Number 1: <input type="number" name="n1" >
        Enter Number 2: <input type="number" name="n2" >
        <input type="submit" value="submit">
    </form>
</body>
</html>
```

PHP:

```php
<!-- Arithmetic PHP -->


<?php


    $n1 = $_GET['n1'];
    $n2 = $_GET['n2'];
    echo "Addition of " .$n1. " and " .$n2. " : " . ($n1 + $n2);
?>


<!-- Output -->
<!-- Addition of 11 and 20 : 31 -->
```