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| <b>CO-4</b> | Apply the concept of state management for building web application. |
|-------------|---|

### **PRACTICAL LIST – 4**

- 4.1** Write two different PHP script to demonstrate passing variables through a URL.
- 4.2** Write a PHP script to demonstrate creating, deleting, updating, retrieving and passing variable cookie data.
- 4.3** Write a PHP script to authentication with cookies.
- 4.4** Write two different PHP script to demonstrate passing variables with sessions.
- 4.5** Write a PHP script to authentication with sessions.
- 4.6** Write a program to keep track of how many times a visitor has loaded the page.
- 4.7** Write a PHP script to demonstrate Error Handling Using die()
- 4.8** Write a PHP script to demonstrate Use Of Custom Error Handler.
- 4.9** Write a PHP script to demonstrate Use Of Try and Catch Error Handling.

**Aim:**

- 4.1** Write two different PHP script to demonstrate passing variables through a URL.

**Software Required:** Notepad, WordPad, Notepad++, Dreamweaver

**Pre-requisite:** Basic knowledge of editor

**Theory/Logic:****❖ Passing variable through URL:**

- ☐ When GET method is used to submit forms data to server. Data is appended to the end of the URL as follows:
- ☐ `http://localhost/myscript.php?firstName=Fred & lastName=Bishop & ...`
- ☐ Browser adds a query ( ? ) character to the end of the URL, then follows it with each of the form fields as "name=value" pairs, with each pair separated by an ampersand ( & ).
- ☐ *The query string is the part of the URL after the ? Character.*
- ☐ Query string is simply a string of characters stored in a URL, you can manually create a URL containing a query string in your PHP script, then include the URL as a link.

**Program/Solution:****PR4.1(1): -**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Practitcs1-4.1</title>
  <style>
    .center {
      text-align: center;
      font-weight: bold;
      font-size: x-large;
      margin-top: 20px;
    }
  </style>
</head>
<body>
  <form action="PR4_1(2).php" method="GET">
    <div class="center">
      <p>Calculator</p>
      <label>First Number :</label>
      <input type="number" name="fnum" /><br>
      <label>Second Number :</label>
      <input type="number" name="snum" /><br>
    </div>
```

```

        <button name="btnsum" style="margin-left: 45%; margin-top: 20px; font-
weight: bold;">+</button>
        <button name="btnsub" style="font-weight: bold;">-</button>
        <button name="btnmul" style="font-weight: bold;">*</button>
        <button name="btndiv" style="font-weight: bold;">/</button>
        <button name="btnmod" style="font-weight: bold;">%</button>
    </form>
</body>
</html>

```

#### PR4.1(2): -

```

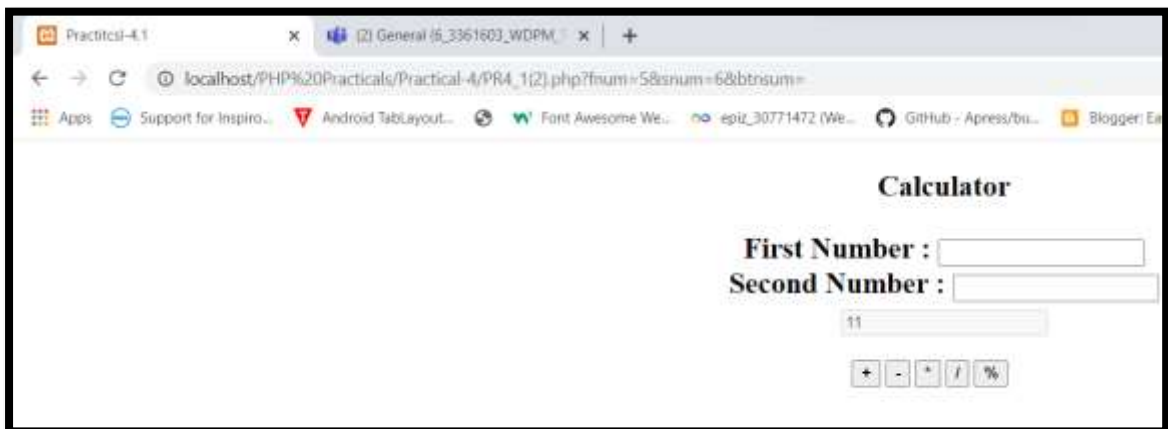
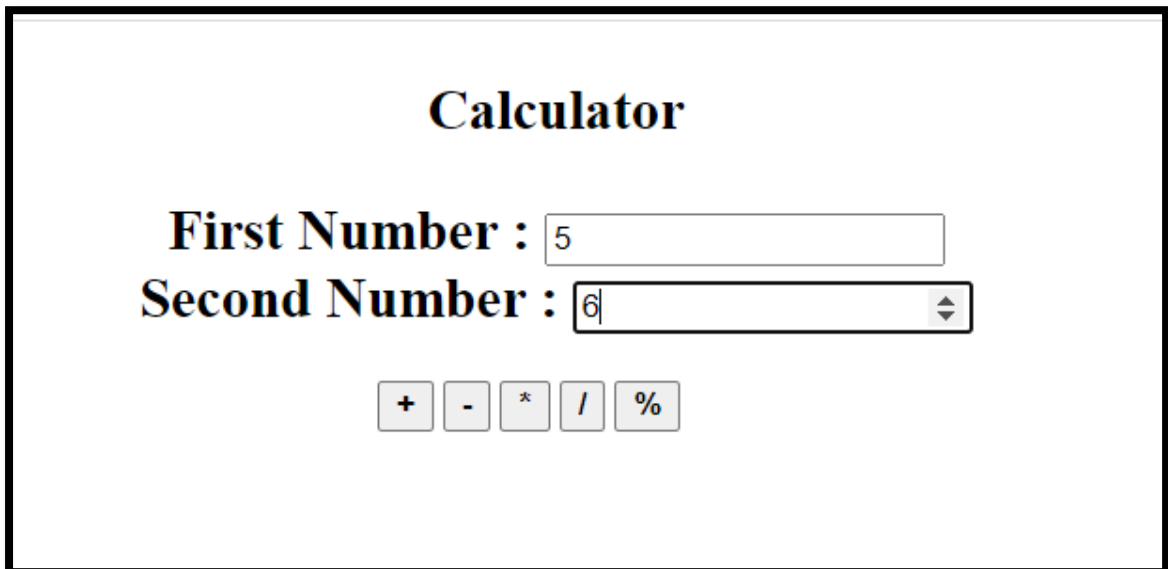
<?php
    if(isset($_GET['btnsum']))
        $total=$_GET['fnum']+$_GET['snum'];
    else if(isset($_GET['btnsub']))
        $total=$_GET['fnum']-$_GET['snum'];
    else if(isset($_GET['btnmul']))
        $total=$_GET['fnum']*$_GET['snum'];
    else if(isset($_GET['btndiv']))
        $total=$_GET['fnum']/$_GET['snum'];
    else
        $total=$_GET['fnum']%$_GET['snum'];
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Practitcs1-4.1</title>
    <style>
        .center {
            text-align: center;
            font-weight: bold;
            font-size: x-large;
            margin-top: 20px;
        }
    </style>
</head>
<body>
    <form action="PR4_1(2).php" method="GET">
        <div class="center">
            <p>Calculator</p>
            <label>First Number :</label>
            <input type="number" name="fnum" /><br>
            <label>Second Number :</label>
            <input type="number" name="snum" /><br>
            <input type="number" value="<?php echo $total; ?>" disabled /><br>
        </div>
        <button name="btnsum" style="margin-left: 45%; margin-top: 20px; font-
weight: bold;">+</button>
        <button name="btnsub" style="font-weight: bold;">-</button>
        <button name="btnmul" style="font-weight: bold;">*</button>
        <button name="btndiv" style="font-weight: bold;">/</button>
        <button name="btnmod" style="font-weight: bold;">%</button>
    </form>

```

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

Output:



Questions:

1. Define: QueryString.

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2. List out Disadvantages of QueryString.

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**Aim:**

- 4.2 Write a PHP script to demonstrate creating, deleting, updating, retrieving and passing variable cookie data.
- 4.3 Write a PHP script to authentication with cookies.

**Software Required:** Notepad, WordPad, Notepad++, Dreamweaver

**Pre-requisite:** Basic knowledge of editor

**Theory/Logic:****❖ Cookies:**

- ☐ It is a small piece of information stored either on client's computer's browser memory or in a file on hard disk.
- ☐ It is having name and value.
- ☐ It is useful for storing user specific information such as username, age, password, last visit of user etc.
- ☐ Syntax: -

**Setcookie (Name, value, Expire Time, path, domain, security, HttpOnly)**

**❖ Accessing Cookies:**

- ☐ Syntax: -

**\$\_COOKIE ['cookie name']**

**❖ Deleting Cookie:**

- ☐ To delete a cookie, call setcookie () with the cookie name and any value (such as an empty string), and set an expires argument that is in the past.
- ☐ Syntax: -

**Setcookie ('Cookie Name', '')**

**/OR/**

**Setcookie ("name", "", time ()-60, "/")**

**❖ Session Cookie:**

- ☐ When user creates a cookie using setcookie () function without specifying any Expire Time then it is treated as session cookie.

- ☐ **Syntax:**

**Setcookie ('cookie**

**Name', value);**

**Program/Solution:**

**PR4.2(1): -**

```
<html>
  <head>
    <title>Php Practical</title>
    <style>
      .center {
        text-align: center;
        margin-top: 15%;
```

```
        font-size: large;
        font-family: Verdana, Geneva, Tahoma, sans-serif;
    }
</style>
</head>
<body>
    <form action="" method="post">
        <div class="center">
            <label for="opt">Choose any one operation:</label>
            <select name="opt" id="opt">
                <option value="create">Create</option>
                <option value="delete">Delete</option>
                <option value="update">Update</option>
                <option value="retrieve">Retrieve</option>
            </select><br>
            <button type="submit" name="btn" style="margin-top: 30px;font-
size: large;"><b>Submit</b></button>
        </div>
    </form>
</body>
</html>
<?php
    if(isset($_REQUEST['btn']))
    {
        $val=$_REQUEST['opt'];
        if($val=="create")
        {
            //setcookie(name, value, expire);
            setcookie('name', 'Abhi', time()+60*60*3);
            setcookie('age', '18', time()+60*60*3);
            echo "Abhi cookie has been set<br>";
            echo "The cookie has been set for 3 days";
        }
        if($val=="delete")
        {
            if(isset($_COOKIE['name']) and isset($_COOKIE['age']))
            {
                setcookie('name', 'Abhi', time()-60*60*3);
                setcookie('age', '18', time()-60*60*3);
                if(isset($_COOKIE['name']) and isset($_COOKIE['age']))
                {
                    echo "Cookies has been deleted";
                }
                else
                {
                    echo "Cookies has been not deleted";
                }
            }
            else
            {
                echo "Cookies has been not set yet";
            }
        }
        if($val=="update")
        {
            header("location: update_cookie.php");
        }
    }
}
```

```

    }
    if($val=="retrieve")
    {
        header("location: view_cookie.php");
    }
}

```

?>

### Update\_cookie.php:

```

<?php
if(isset($_COOKIE['name']) and isset($_COOKIE['age']))
{
    $name=$_COOKIE['name'];
    $age=$_COOKIE['age'];
    ?>
    <form action="" method="post">
        Name: <input type="text" name="txtname" placeholder="<?php echo
$name; ?>"><br>
        Age: <input type="text" name="txtage" placeholder="<?php echo
$age; ?>"><br>
        <button type="submit" name="btnsubmit">Submit</button>
    </form>
    <?php
    }
    else
    {
        echo "<script>
            alert('Cookies are not set yet');
            window.location.href='cookies.php';
        </script>";
    }
}

```

?>

```

<?php
if(isset($_REQUEST['btnsubmit']))
{
    $name=$_REQUEST['txtname'];
    $age=$_REQUEST['txtage'];
    setcookie('name', $name, time()+60*60*3);
    setcookie('age', $age, time()+60*60*3);
    if(isset($_COOKIE['name']) and isset($_COOKIE['age']))
    {
        echo "<script>
            alert('Cookies has been updated');
            window.location.href='cookies.php';
        </script>";
    }
}

```

?>

### View\_cookie.php: -

```

<?php
if(isset($_COOKIE['name']) and isset($_COOKIE['age']))
{
    $name = $_COOKIE['name'];
    $age = $_COOKIE['age'];
}

```

```

        echo "Name : $name";
        echo "<br>Age : $age";
    }
    else
    {
        echo "<script>
            alert('No cookie is available');
            window.location.href='cookies.php';
        </script>";
    }
?>

```

**PR4.3:-**

```

<html>
<head>
    <title>Login</title>
</head>
<body>
    <form action="" method="POST">
        <label>Username :</label>
        <input type="text" name="txtname"><br>
        <label>Password :</label>
        <input type="password" name="txtpassword"><br>
        <button name="btnlogin">Login</button>
    </form>
</body>
</html>
<?php
    if(isset($_REQUEST['btnlogin']))
    {
        $post_username=$_POST['txtname'];
        $post_password=$_POST['txtpassword'];
        if($post_username=="abhinalla" and $post_password=="abhi")
        {
            setcookie('username', $post_username);
            setcookie('password', $post_password);
            header("location: seecookie.php");
        }
        else {
            echo "Error";
        }
    }
?>

```

**PR4.3(2):-**

```

<?php
    if(isset($_COOKIE['username']) and isset($_COOKIE['password']))
    {
        $name=$_COOKIE['username'];
        $pass=$_COOKIE['password'];?>
        <body>
            <form action="" method="post">
                Welcome, <?php echo $name; ?><br>
                <button type="submit" name="logout">Logout</button>
            </form>
        </body>
    <?php

```



```
if(isset($_REQUEST['logout']))
{
    setcookie('username', $name, time()-60*60*3);
    setcookie('password', $pass, time()-60*60*3);
    echo "<script>
    alert('Logging Off');
    window.location.href='PR4_3.php';
    </script>";
}
?>
<?php
}
else
{
    echo "<script>
    alert('User's cookie has not been set');
    window.location.href='PR4_3.php';
    </script>";
}
?>
```

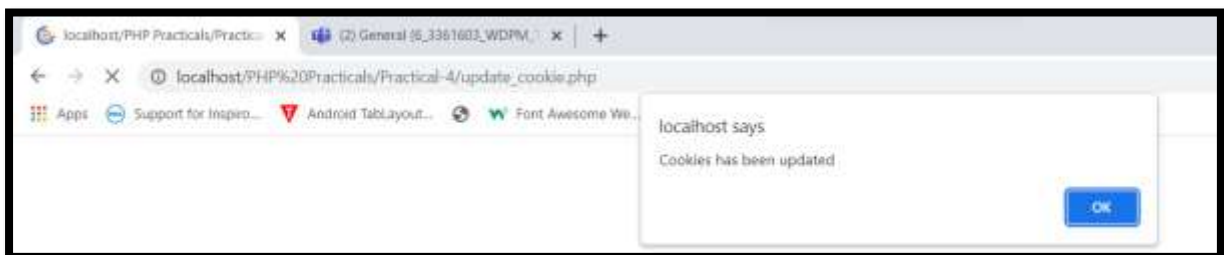
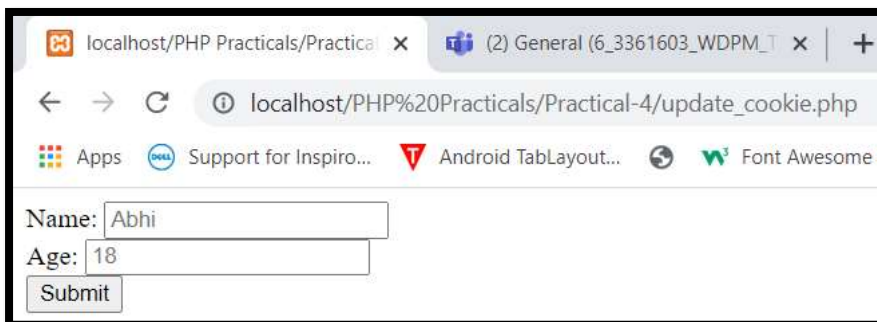
Output:

PR4.2

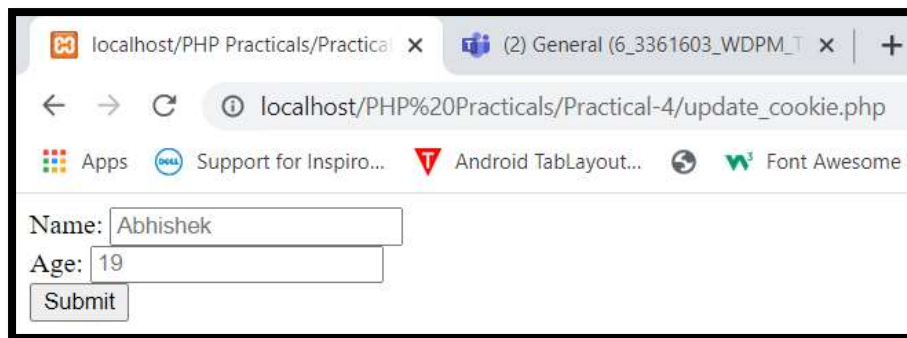
Creating cookie: -



Updating a cookie: -



After updating the cookie: -

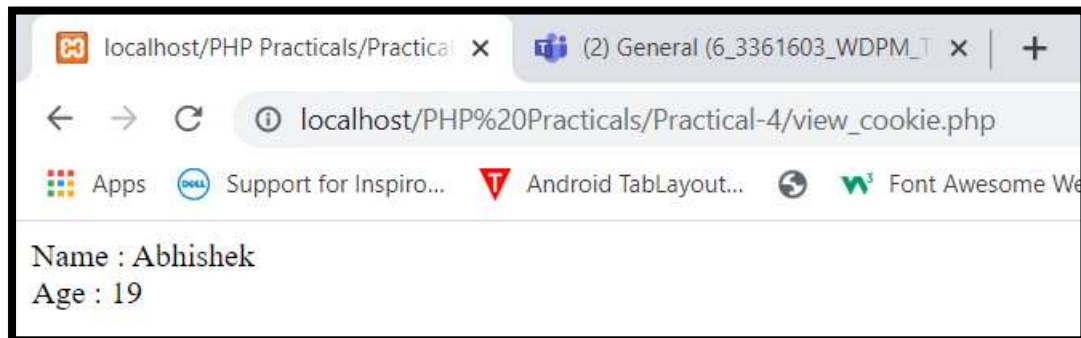


localhost/PHP Practicals/Practical-4/update\_cookie.php

Name:

Age:

**Retrieving the cookie: -**



localhost/PHP Practicals/Practical-4/view\_cookie.php

Name : Abhishek

Age : 19

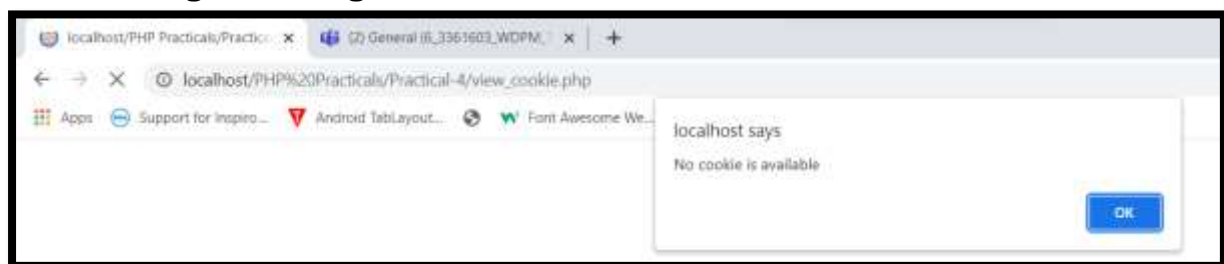
**Deleting the cookie: -**



Choose any one operation:

Cookies has been deleted

**After deleting, retrieving the cookie: -**

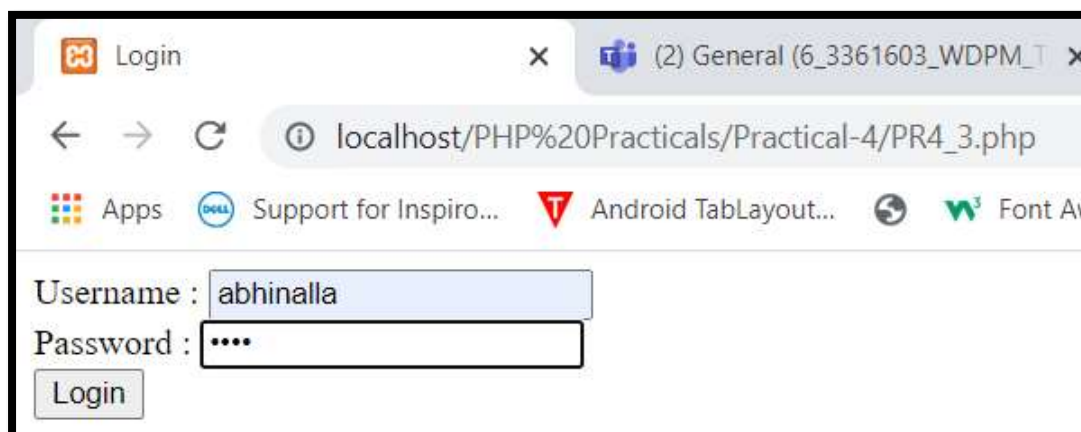


localhost/PHP Practicals/Practical-4/view\_cookie.php

localhost says

No cookie is available

### PR4.3

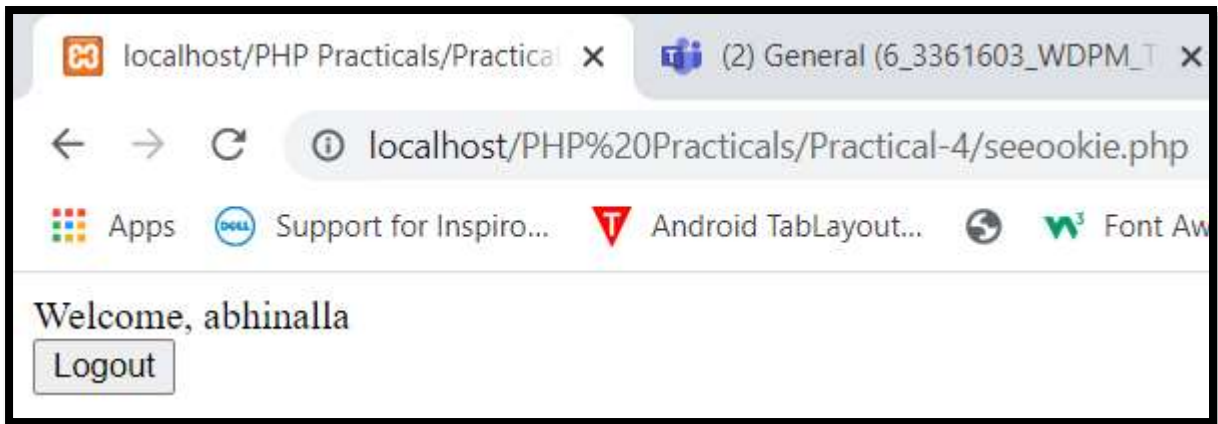


Login

localhost/PHP Practicals/Practical-4/PR4\_3.php

Username :

Password :

**Authenticating the user: -****Questions:**

1. Write a code for cookie which expires after 3 days.

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**Aim:**

- 4.4 Write two different PHP script to demonstrate passing variables with sessions.
- 4.5 Write a PHP script to authentication with sessions.
- 4.6 Write a program to keep track of how many times a visitor has loaded the page.

**Software Required:** Notepad, WordPad, Notepad++, Dreamweaver

**Pre-requisite:** Basic knowledge of editor

**Theory/Logic:****❖ Session:**

- ☐ It is a temporary data that is created and stored at server side to uniquely identify each user on website.
- ☐ A session is a way to store information (in variables) to be used across multiple pages.
- ☐ PHP first creates a unique identifier for that particular session which is a random string of 32 hexadecimal numbers such as 3c7foj34c3jj973hjkop2fc937e3443.
- ☐ To start a PHP session in your script simply calls `session_start()`.
- ☐ Session variables are set with the PHP global variable: `$_SESSION`.

**❖ Accessing Session: -**

- ☐ Syntax: -  
`$_SESSION ['Variable name'] =value.`

**❖ Destroy Session:**

- ☐ There are three methods to destroy session.
- ☐ `session_unset()`
- ☐ `session_destroy()`
- ☐ `unset($_SESSION['Session Name']);`

**Program/Solution:****PR4.4**

```
<?php
    session_start();
?>
<html>
    <head>
        <title>Practical-4</title>
        <style>
            .center{
                text-align: center;
                font-size: large;
                font-family: Verdana, Geneva, Tahoma, sans-serif;
                margin-top: 15%;
            }
        </style>
    </head>
    <body>
        <div class="center">
```

```

        <form action="" method="POST">
            Name of Game: <input type="text" name="txtname" /><br>
            <button name="btn" type="submit" style="margin-top:
30px;"><b>Submit</b></button>
        </form>
    </div>
</body>
</html>
<?php
    if(isset($_REQUEST['btn']))
    {
        $name=$_REQUEST['txtname'];
        $_SESSION['game_name']=$name;
        header("location: PR4_4(2).php");
    }
?>

```

**PR4.4(2): -**

```

<?php
    session_start();
    if(isset($_SESSION['game_name']))
    {
        echo "Session Name : ".$_SESSION['game_name'];
    }
    else
    {
        session_destroy();
        header("location: PR4_4.php");
    }
?>

```

**PR4.5: -**

```

<?php
    session_start();
?>
<html>
<head>
    <title>Login</title>
</head>
<body>
    <form action="" method="POST">
        <label>Username :</label>
        <input type="text" name="txtname"><br>
        <label>Password :</label>
        <input type="password" name="txtpassword"><br>
        <button name="btnlogin">Login</button>
    </form>
</body>
</html>
<?php
    if(isset($_REQUEST['btnlogin']))
    {
        $name=$_REQUEST['txtname'];
        $pass=$_REQUEST['txtpassword'];
        if($name=="abhinalla" and $pass=="abhi")
        {
            $_SESSION['username']=$name;
            header("location: PR4_5(2).php");
        }
    }
?>

```

```
    }
    else
    {
        echo '<script>alert("Enter Credentails are not right.<br>Reenter
the details.")</script>';
    }
}
```

?>

**PR4.5(2): -**

```
<?php
    session_start();
    if(isset($_SESSION['username']))
    {
?>
<html>
<head>
    <title>Practical-5</title>
</head>
<body>
    <form action="" method="post">
        <?php
            echo "Welcome ". $_SESSION['username']."<br>Thanks for visiting
the website.";
        ?>
        <br><button type="submit" name="logout">Logout</button>
    </form>
</body>
</html>
<?php
}
else
{
    session_destroy();
    header("location: PR4_5.php");
}
?>
<?php
    if(isset($_REQUEST['logout']))
    {
        session_destroy();
        header("location: PR4_5.php");
    }
?>
```

**PR4.6: -**

```
<?php

session_start();

if(isset($_SESSION['views']))
    $_SESSION['views'] = $_SESSION['views']+1;
else
    $_SESSION['views']=1;

echo"Views = ".$_SESSION['views'];
?>
<body>
```

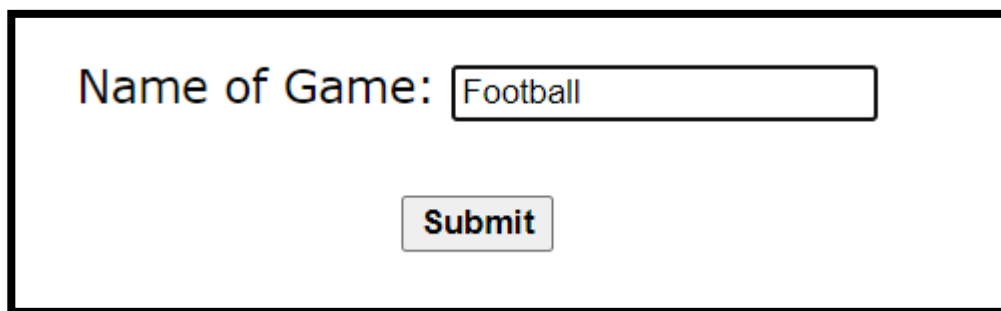
```
<br>For resetting the Views, <a href="reset_views.php">Click Here</a>
</body>
Reset_views: -
<?php
```

```
session_start();
$views = $_SESSION['views'];

unset($_SESSION['views']);
session_destroy();
echo "Views has been resetted";
?>
<br>For Viewing the visits, <a href="PR4_6.php">Click Here</a>
```

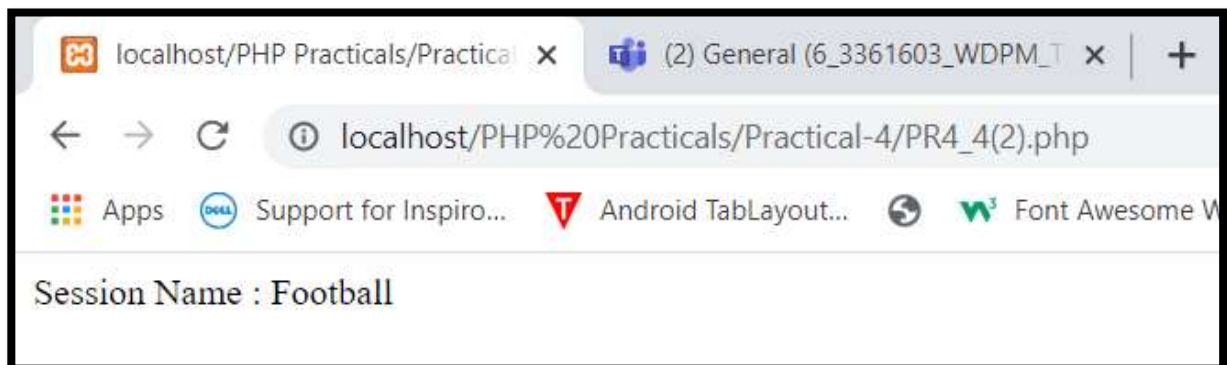
Output:

#### PR4.4



Name of Game:

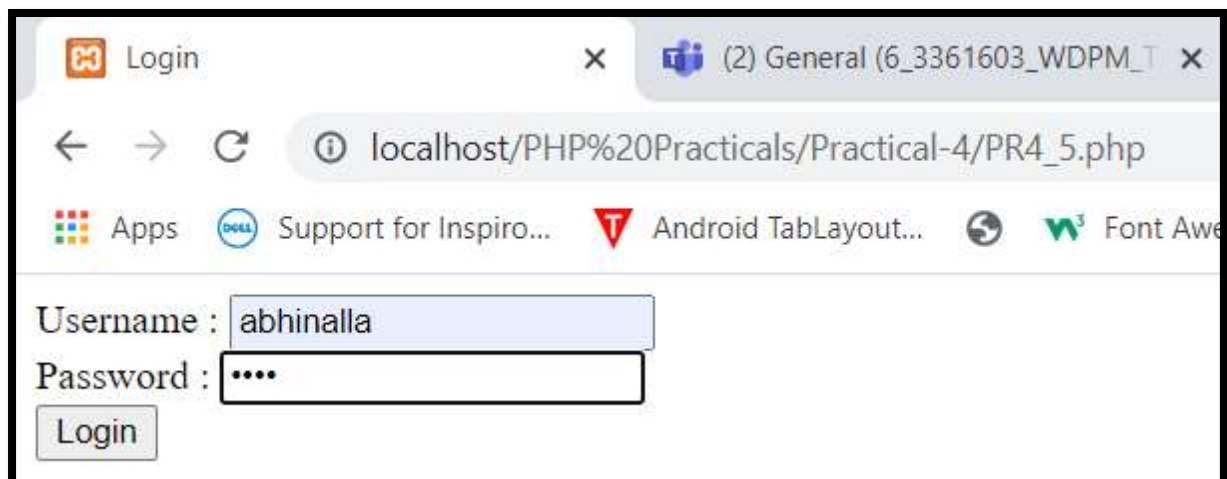
#### PR4.4(2)



localhost/PHP Practicals/Practical-4/PR4\_4(2).php

Session Name : Football

#### PR4.5

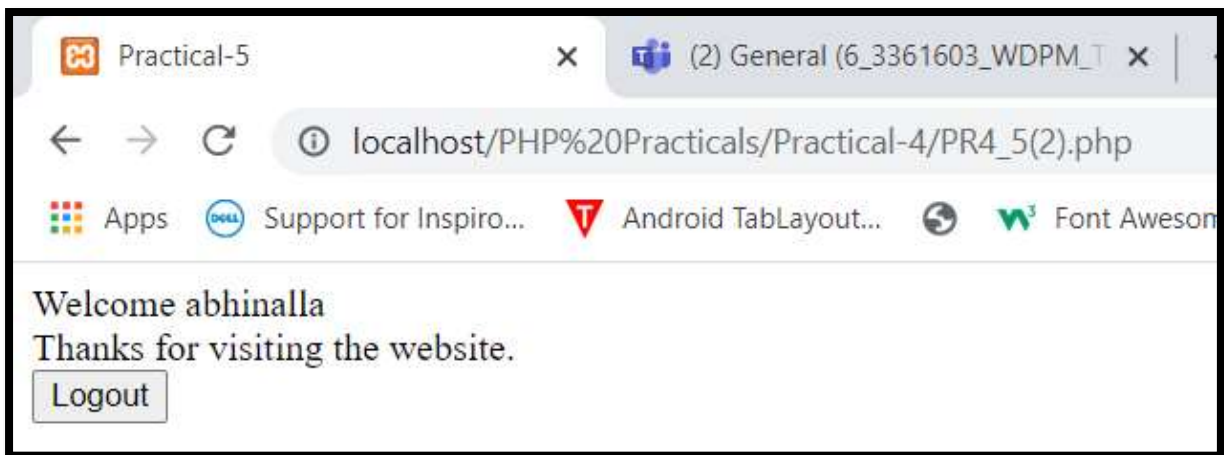


Login

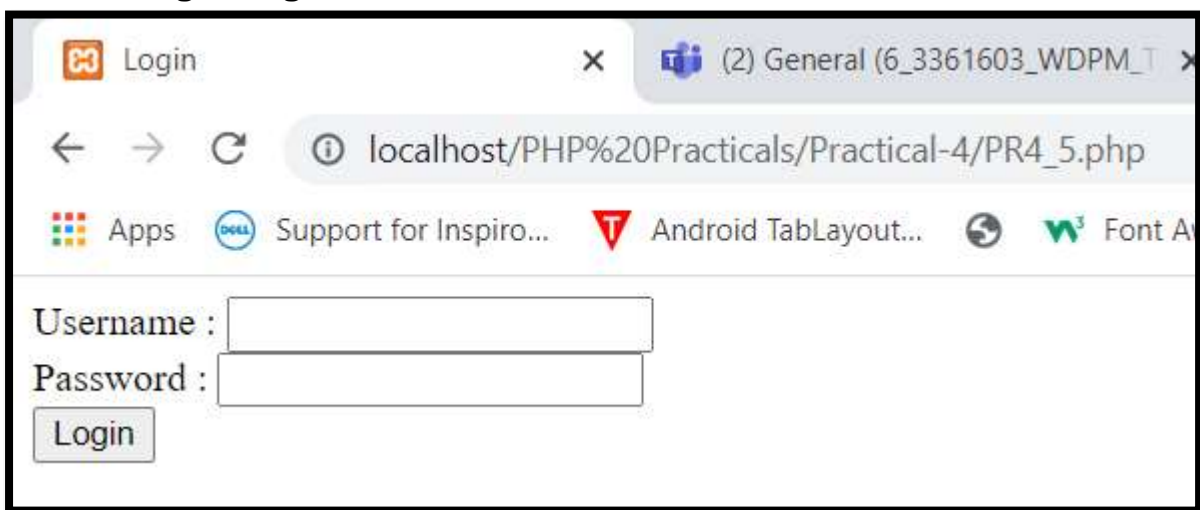
Username :

Password :

After clicking Login button,



After clicking the logout button,



### Questions:

1. How to create current Session ID?

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2. Write any two differences between Cookie V/S Session.



**Aim:**

- 4.7 Write a PHP script to demonstrate Error Handling Using die()
- 4.8 Write a PHP script to demonstrate Use of Custom Error Handler.
- 4.9 Write a PHP script to demonstrate Use of Try and Catch Error Handling.

**Software Required:** Notepad, WordPad, Notepad++, Dreamweaver

**Pre-requisite:** Basic knowledge of editor

**Theory/Logic:****❖ Error Handling in PHP:**

- ☐ When Error generated in script, in built Error handling mechanism of PHP stops execution of script and display error message.
- ☐ There are three methods of Error Handling in PHP.

**❖ Using die() function :-**

- ☐ It will display error message that user can easily understand and it will stop the execution of script.
- ☐ The die () function prints a message and exits the current script.
- ☐ This function is an alias of the exit () function.

**❖ Using Custom Error Handler:**

- ☐ We simply create a special function that can be called when an error occurs in PHP.

- ☐ Syntax: -

**Function Custom\_Function\_Name (Type, Message, Filename, Line Number, Context)**

- ☐ Type=It Indicates Type of error.
- ☐ Message=It Indicates Detailed Error Message.
- ☐ Filename=It Indicates Name of file in which Error Generated.
- ☐ Line Number=It Indicates Number of line in file which error generated.
- ☐ Context=It Indicates Array which contains all variables with its value.

**❖ Using Exception Handling:**

- ☐ PHP provides exception handling mechanism without terminating the execution with following three keywords.
- ☐ 1) Try 2) catch 3) Throw.
- ☐ Syntax: -

**Try**

**{//code to be executed**

**Throw new Exception ("Error Message");**

**}**

**Catch (ExceptionType1 \$obj1)**

**{// Exception Handling code for Exception Type 1**

**}**

**Program/Solution:**

**PR4.7: -**

```
<?php
    if(!isset($a))
    {
```

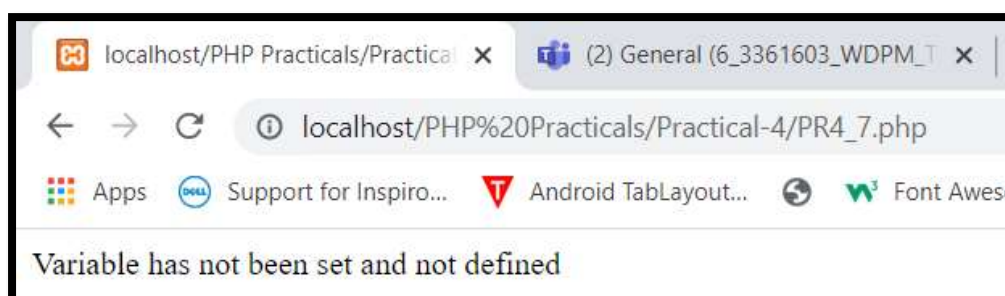
```
        die("Variable has not been set and not defined");
    }
    else
    {
        $c=$a;
        echo $c;
    }
?>
```

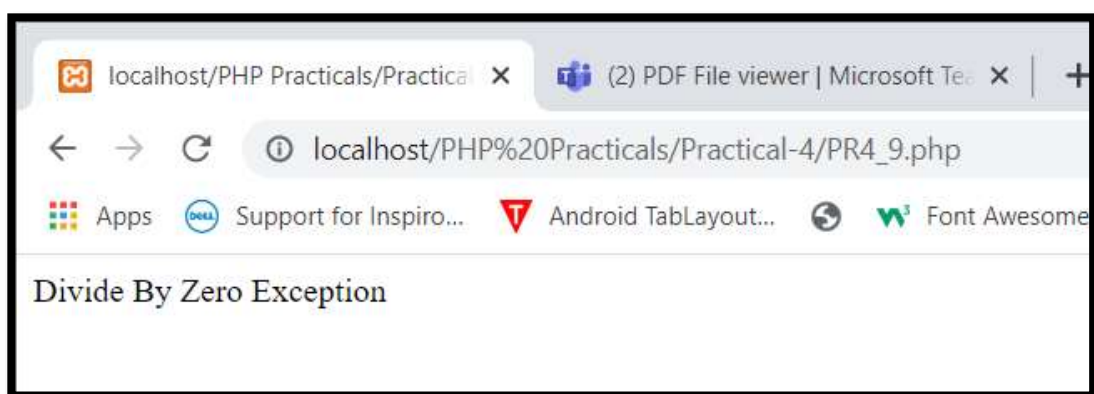
**PR4.8: -**

```
<?php
function MyCustom($Type, $Message, $FileName, $LineNumber)
{
    echo "Error Type : ". $Type."<br/>";
    echo "Error Message : ". $Message."<br/>";
    echo "File Name : ". $FileName."<br/>";
    echo "Line Number : ". $LineNumber."<br/>";
}
set_error_handler("MyCustom");
$n1=40;
$n2=0;
echo "Division : ".$n1/$n2."<br>";
echo "Number 1 : ".$n1."<br>";
echo "Number 2 : ".$n2."<br>";
?>
```

**PR4.9: -**

```
<?php
try {
    $n1=40;
    $n2=0;
    if($n2==0)
    {
        throw new Exception("Divide By Zero Exception");
    }
    else
    {
        echo $n1/$n2;
    }
}
catch(Exception $e)
{
    echo $e->getMessage();
}
?>
```

**Output:****PR4.7**

**PR4.8****PR4.9****Questions:**

1. Differentiate die Vs Custom Error Handler