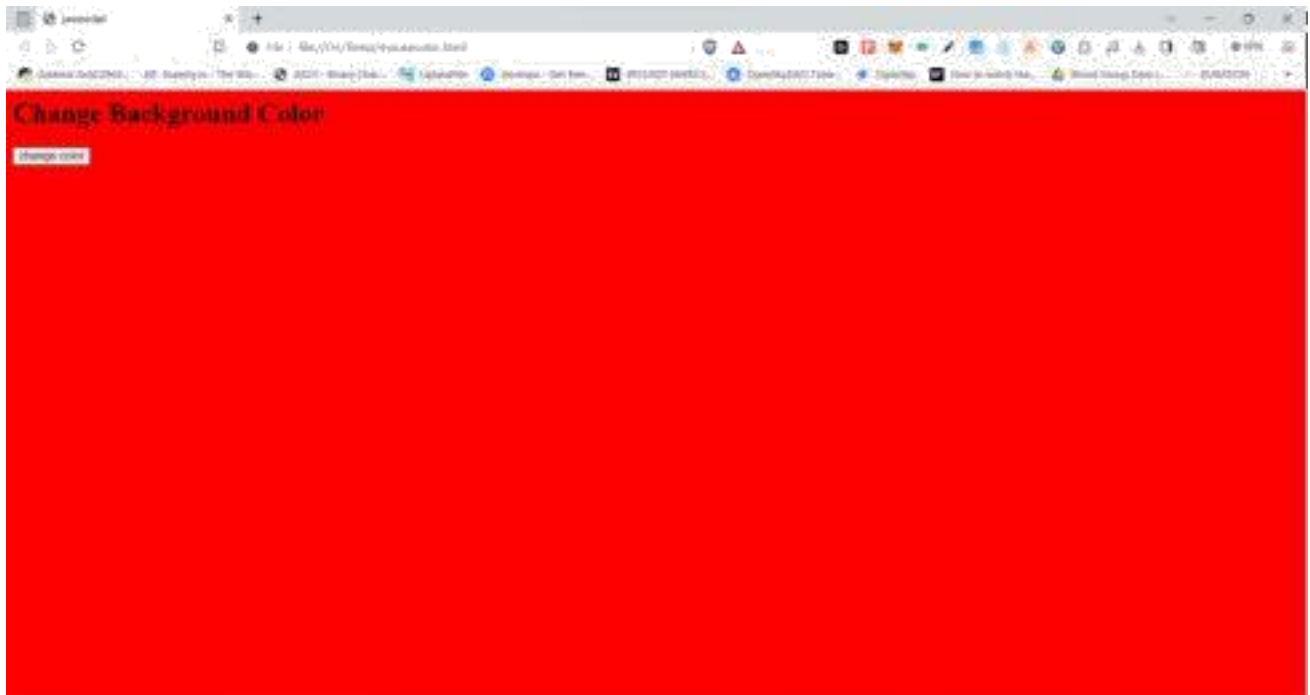
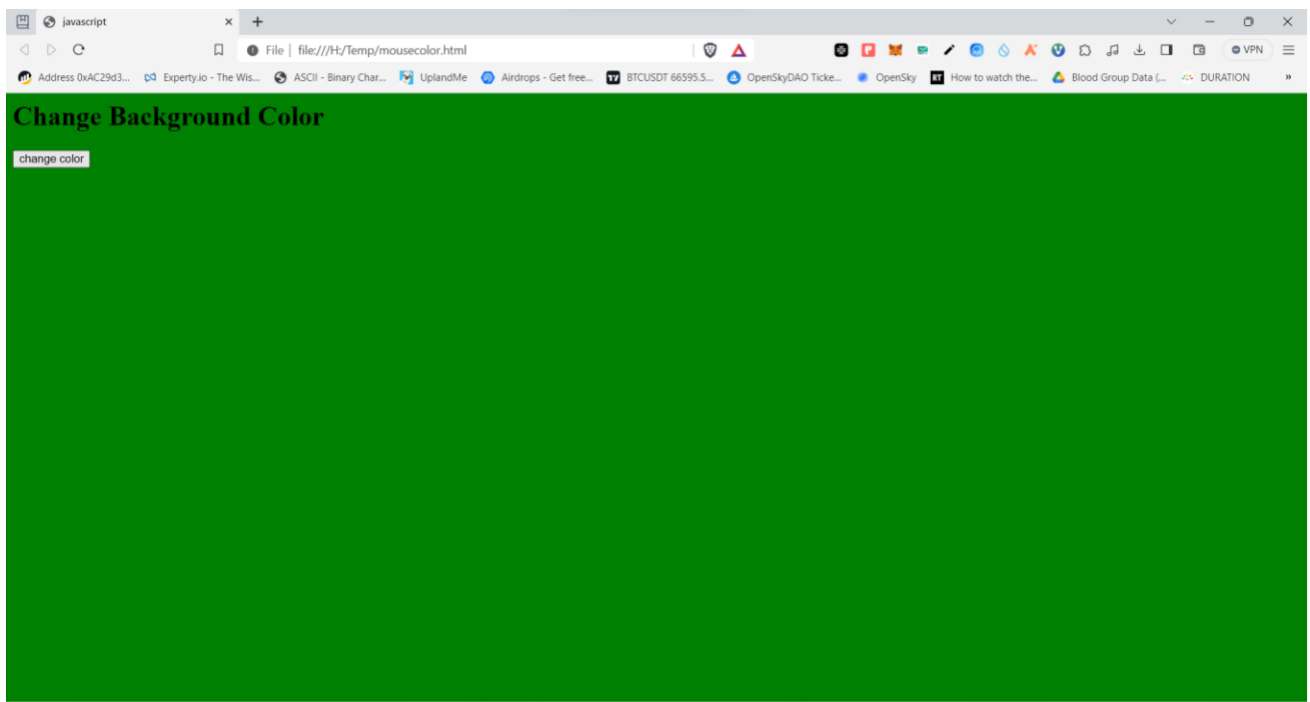


OUTPUT



Single-click: red color



Double-click: green color

MOUSE CLICK EVENTS

AIM:

Develop a web application using JavaScript to change the background color of the webpage when the following events of the button "change background color" occur.

- a. Double click-background color changed to green.
- b. Single click-background color changed to red

SOURCE CODE:

```
<html>
<head>
<title>JavaScript</title>
</head>
<body>
<h1>Change Background Color</h1>
<button id="bgcolor">change color</button>
<script>
    document.getElementById('bgcolor').addEventListener('dblclick',function()
    {
        document.body.style.backgroundColor="green";
    });
    document.getElementById('bgcolor').addEventListener('click',function()
    {
        document.body.style.backgroundColor="red";
    });
</script>
</body>
</html>
```

RESULT:

The program has been executed successfully and output verified.

OUTPUT

BULB



☐ ON ☐ OFF

BULB



☐ ON ☐ OFF

TURN ON/OFF BULB USING JAVASCRIPT

AIM:

Create a web application using JavaScript to turn on/off the given light bulb when the On and Off buttons respectively are clicked. Hint: change the 'src' attribute of the image tag when clicking buttons.

SOURCE CODE:

```
<html>

    <head>

        <title>bulb</title>

    </head>

    <body>

        <h1>BULB</h1>

        <button id="onbtn">ON</button>

        <button id="offbtn">OFF</button>

    <script>

        document.getElementById('onbtn').addEventListener('click',function(){

            document.getElementById('light').src="lighton.JPEG";

        });

        document.getElementById('offbtn').addEventListener('click',function(){

            document.getElementById('light').src="bulboff.JPEG";

        });

    </script>

</body>

</html>
```

RESULT:

The program has been executed successfully and output verified.

FORM VALIDATION USING JAVASCRIPT

AIM:

Create a form that has Name, Mobile and email inputs. A submit button should validate these three fields properly.

SOURCE CODE:

```
<html>

<head>

<title>FormValidation</title>

<script>

function validate(){

var name= document.forms ["frm"] ["name"].value;

var mobile= document.forms ["frm"] ["mobile"].value;

var email=document.forms["frm"] ["mail"].value;

var numformat= /^\d{10}$/;

var mailformat = /^\\w+([\\.-]?\\w+)*@\\w+([\\.-]?\\w+)*\\.\\w{2,3})+$/;

if(name==null||name==""){

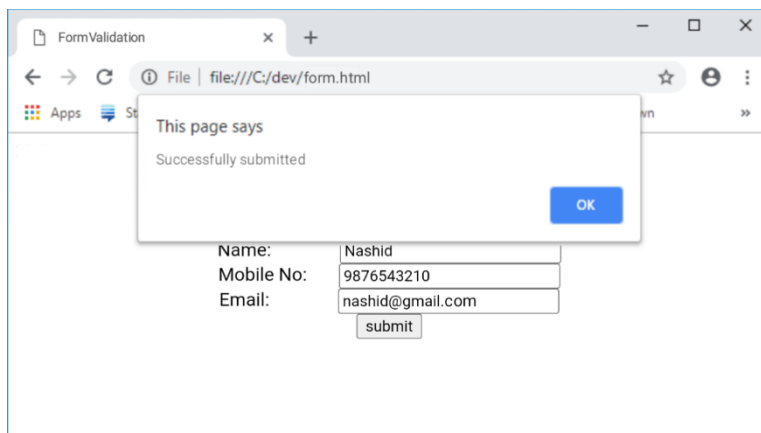
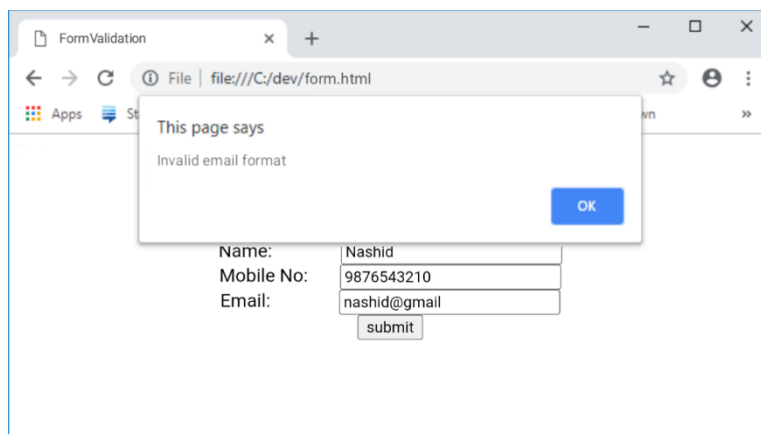
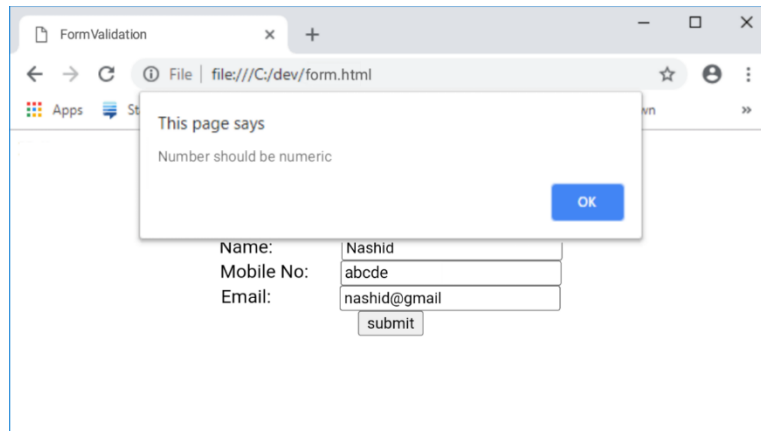
alert ("Name cannot be empty");

return false;

}
```

```
if (isNaN(mobile)) {  
    alert(" Number should be numeric");  
    return false;  
}  
  
if (mobile=="") {  
    alert("Mobile no. cannot be empty");  
    return false;  
}  
  
else if(!(mobile.match(numformat))){  
    alert("Mobile no.should contain 10 digits");  
    return false;  
}  
  
if (email==""){  
    alert("Email cant be empty");  
    return false;  
}  
  
else if (!(email.match(mailformat))) {  
    alert ("Invalid email format")  
    return false;  
}  
  
else  
    alert("Successfully submitted");  
}  
</script>  
</head>
```

OUTPUT



```
<body align="center">  
  
    <b> Form Validation </b><br><br>  
  
    <form name="frm" onSubmit="return validate()">  
  
        Name:   <input type="text" name="name"><br>  
  
        Mobile No:   <input type="text" name="mobile"> <br>  
  
        Email:   <input type="text" name="mail"><br>  
  
        <input type="submit" value="submit">  
  
    </form>  
  
</body>  
  
</html>
```

RESULT:

The program has been executed successfully and output verified.

OUTPUT



The screenshot shows a web browser window with a dark blue header bar. The address bar displays 'localhost/00e.php?number=5'. Below the header, the page title is 'Odd Even Checker'. The main content area contains a form with the label 'Enter a number:' followed by a text input field and a 'Check' button. Below the form, the output text reads '5 is an odd number.'

ODD OR EVEN USING GET METHOD

AIM :

Write a PHP program to check whether the given number is odd or even.

[Hint: Number should be read using Textbox, Use GET Method]

SOURCE CODE :

```
<html>
<head>
  <title>Odd Even </title>
</head>
<body>
  <h2>Odd Even Checker</h2>
  <form method="GET" action="<?php echo $_SERVER['PHP_SELF']; ?>">
    Enter a number: <input type="text" name="number">
    <input type="submit" value="Check">
  </form>
<?php
  if ($_SERVER["REQUEST_METHOD"] == "GET") {
    if (isset($_GET["number"])) {
      $number = $_GET["number"];
      if (is_numeric($number)) {
        if ($number % 2 == 0) {
          echo "<p>{$number} is an even number.</p>";
        }
        else {
          echo "<p>{$number} is an odd number.</p>";
        }
      }
      else {
        echo "<p>Please enter a valid number.</p>";
      }
    }
  }
  ?>
</body>
</html>
```

RESULT:

The program has been executed successfully and output is verified.

OUTPUT

enter a number:

factorial of 12 is:

479001600

FACTORIAL USING POST METHOD

AIM:

Write a PHP program to print the factorial of a number

[Hint :Use for loop, number should be read using textbox, use POST Method]

SOURCE CODE:

```
<html>
<body>
  <form method="post">
    Enter a number :
    <input type="text" name="number">
    <input type="submit" name="submit">
  </form>
</body>
</html>
<?php
if($_POST){
    $number=$_POST['number'];
    $n=$number;
    $f=1;
    for($i=1; $i<=$n;$i++) {
        $f=$f*$i;
    }
    echo "factorial of $n is $f";
  }
?>
```

RESULT:

The program has been executed successfully and output verified .

DETAILS OF STUDENT USING REQUEST

AIM :

Develop a PHP web application for reading details of a student such as Name, Email Id, Address, Gender, Date of Birth etc., and display details when submit button is pressed.
[Use \$_REQUEST variable: The \$_REQUEST variable is a super global variable, which can hold the content of both \$_GET and \$_POST variable.]

SOURCE CODE :

```
<html>
<head>
    <title>Student Details </title>
</head>
<body align="center">
    <h2>Details of Student</h2>
    <form method="REQUEST" action="<?php echo $_SERVER['PHP_SELF']; ?>">
        Name: <input type="text" name="name"><br><br>
        Email id: <input type="email" name="mail"><br><br>
        Address: <textarea rows="4" name="adrs"></textarea><br><br>
        Gender: M <input type="radio" value="M" name="gender"> F <input type="radio"
value="F" name="gender"><br><br>
        DOB: <input type="date" name="dob"><br><br>
        <input type="submit" value="Submit">
    </form>
<?php
    if ($_SERVER["REQUEST_METHOD"] == "GET") {
        if(isset($_REQUEST["name"],$_REQUEST["mail"], $_REQUEST["adrs"],
$_REQUEST["gender"], $_REQUEST["dob"])) {
            $name = $_REQUEST["name"];
            $mail = $_REQUEST["mail"];
            $adrs = $_REQUEST["adrs"];
            $gen = $_REQUEST["gender"];    $dob = $_REQUEST["dob"];    echo
"<br><br>DETAILS:- <br><br>"; echo "Name: $name <br> Email ID: $mail <br>
Address: $adrs <br> Gender: $gen <br> D.O.B: $dob" ;
        }
    }
```

OUTPUT

Details of Student

Name:

Email id:

Address:

Gender: M ☐ F ☒

DOB:

Please enter values..

on submit :-

Details of Student

Name:

Email id:

Address:

Gender: M ☐ F ☐

DOB:

DETAILS:-

Name: Sneha
Email ID: sneha007@gmail.com
Address: House no., Street, P.O., District.
Gender: F
D.O.B: 2002-07-16

```
else {  
    echo "<p>Please enter values..</p>";  
}  
}  
?>  
</body>  
</html>
```

RESULT:

The program has been executed successfully and output is verified.

BOOK DETAILS FROM THE DATABASE

AIM :

Using PHP and MySQL, develop a program to accept book information such as book_no (primary key) , title, edition and publisher from a web page and store the information in a table named 'book_details'. Also display the details of all books using a HTML Table.

SOURCE CODE :

main.php

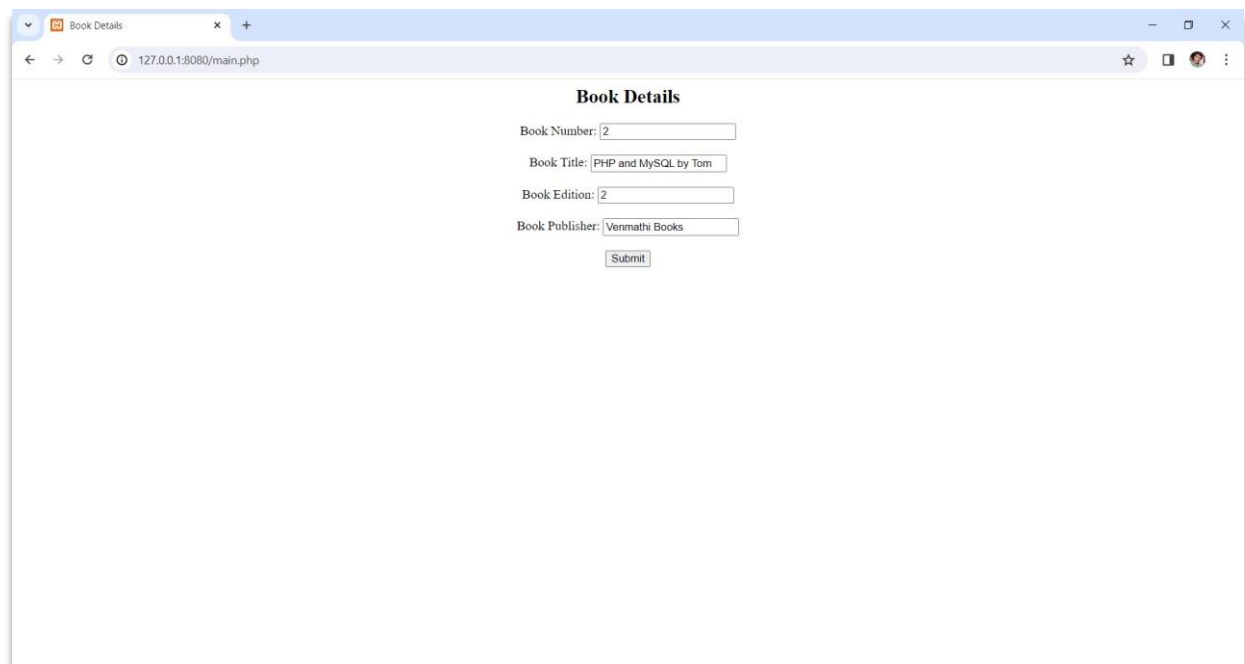
```
<?php
include("connect.php");
?>
<html>
<head>
<title>Book Details</title>
</head>
<body>
<center>
<h2>Book Details</h2>
<form action="display.php" method="POST">
Book Number: <input type="text" name="bookno"><br><br>
Book Title: <input type="text" name="booktitle"><br><br>
Book Edition: <input type="number" name="booked"><br><br>
Book Publisher: <input type="text" name="bookpub" value=""><br><br>
<input type="submit" name="submit" value="Submit">
</form>
</center>
</body>
</html>
```

display.php

```
<?php
include("connect.php");
if($_POST){
$bookno= $_POST['bookno'];           //form name attribute
```


OUTPUT

main.php



Book Details


Book Number:

Book Title:

Book Edition:

Book Publisher:

on submit :-



Book Details

Book Number	Title	Edition	Publisher
1	Web Programming Basics	3	Domus Publications Ltd.
2	PHP and MySQL by Tom	2	Venmathi Books

```

$booktitle= $_POST['booktitle'];
$bookedition= $_POST['booked'];
$bookpub= $_POST['bookpub'];
$sql= mysqli_query($conn, "INSERT INTO book_details VALUES('$bookno', '$booktitle',
'$bookedition', '$bookpub')");
$query=mysqli_query($conn, "SELECT * FROM book_details"); }
?>
<html>
<head>
<title>Display Book Details</title>
</head>
<body>
<h2 align="center">Book Details</h2><br>
<table align="center" border="1px solid black">
<tr>
<th>Book Number</th>
<th>Title</th>
<th>Edition</th>
<th>Publisher</th>
</tr>
<tr>
<?php
while($row= mysqli_fetch_assoc($query)){
echo "<tr>";
echo "<td>". $row['id'] ."</td>";           //table coloum
name echo "<td>". $row['title'] ."</td>"; echo "<td>".
$row['edition'] ."</td>"; echo "<td>". $row['publisher'] ."</td>";
echo "</tr>";
} ?>
</tr>
</table>
</body>
</html>

```

connect.php

```

<?php
$servername = "localhost";
$username= "root";
$password = "";
$dbname="mcadb";           //db name
$conn=new mysqli($servername, $username, $password,$dbname); if($conn->connect_error)
{
die("Connection failed:".$conn->connect_error); }
?>

```

RESULT:

The program has been executed successfully and output is verified.

LOGIN FORM

AIM:

Create a Login form using PHP. The user is first served a login page which takes username and password. After submitting the details, the server checks these values against the data from a database and takes the following decisions.

SOURCE CODE:

Main.php

```
<?php
include('connect.php');
session_start();
?>

//creation of form

<html>

<head>

<title>Login</title>

</head>

<body>

<center>

<h2>Login Page</h2>

<form action="check.php" method="post">

Username: <input type="text" name="uname"><br><br>

Password: <input type="password" name="pword"><br><br>

<input type="submit" name="submit" value="Submit"><br>
```

```

</form>

</center>

</body>

</html>

//display error meassage

<?php
if($_GET){
$msg=$_GET['msg'];
echo "<center>";
echo "<br><br>".$msg."<br>";
echo "</center>";
}
?>

```

Connect.php

```

<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "loginform";

$conn = new mysqli($servername,$username,$password,$dbname);
if($conn->connect_error){
die("Connection failed:" . $conn->connect_error);
}
?>

```

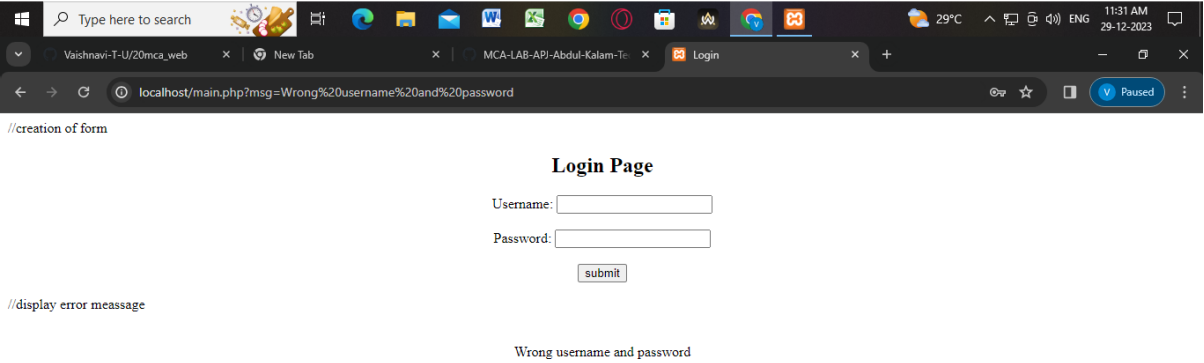
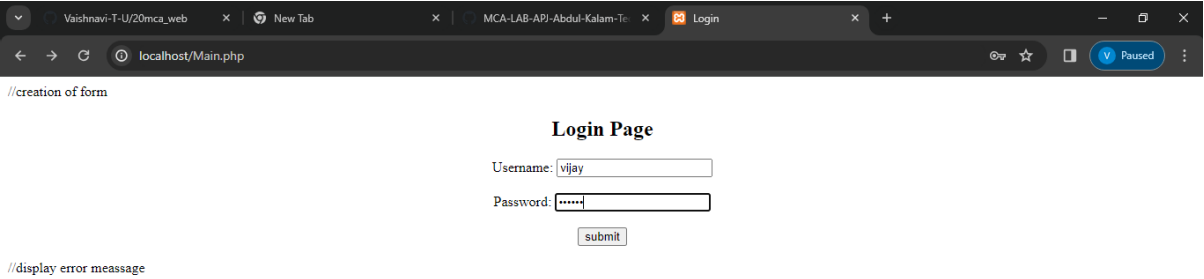
Welcome.php

```
<?php
session_star();
?>
<html>
<body>
<h1 align="center">welcome</h1>
<h1 align="center">
<?php
echo $_SESSION['login_user'];
?>
</h1>
</body>
</html>
```

Check.php

```
<?php
include('connect.php');
session_start();
if($_POST['submit']){
$username = $_POST['uname'];
$password = $_POST['pword'];
$sql = mysqli_query($conn, "SELECT * FROM userlogin WHERE username=
'$uname' OR password=
'$pword'");
while($row = mysqli_fetch_assoc($sql)){
$dbuname = $row['username'];
$dbpword = $row['password'];
}
```

OUTPUT



```
if(isset($dbuname) && isset($dbpword)){  
    if($dbuname == $uname && $dbpword == $pword){  
        $_SESSION['login_user'] = $uname;  
        header("location:welcome.php");  
    }  
    else if($dbuname == $uname && $dbpword != $pword)  
    {  
        header("Location:main.php?msg=Wrong password");  
    }  
    else if($dbuname != $uname && $dbpword == $pword)  
    {  
        header("Location:main.php?msg=Wrong username");  
    }  
    }  
    else{  
        header("Location:main.php?msg=Wrong username and password");  
    }  
    }  
    ?>
```

RESULT:

The program ran successfully and output is obtained.