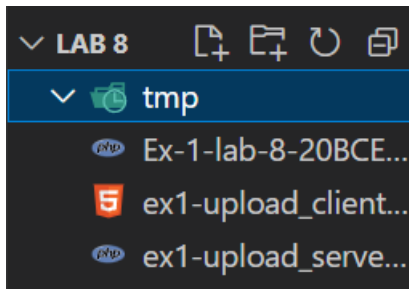| Programme	:	**B.Tech.**	Semester	:	**Fall 22-23**
Course	:	**CSE3002:** **Internet and Web Programming Lab**	Slot	:	**L9+L10**
Faculty	:	**Dr. M. Premalatha**	Marks	:	**10**

Date: 18-10-2022

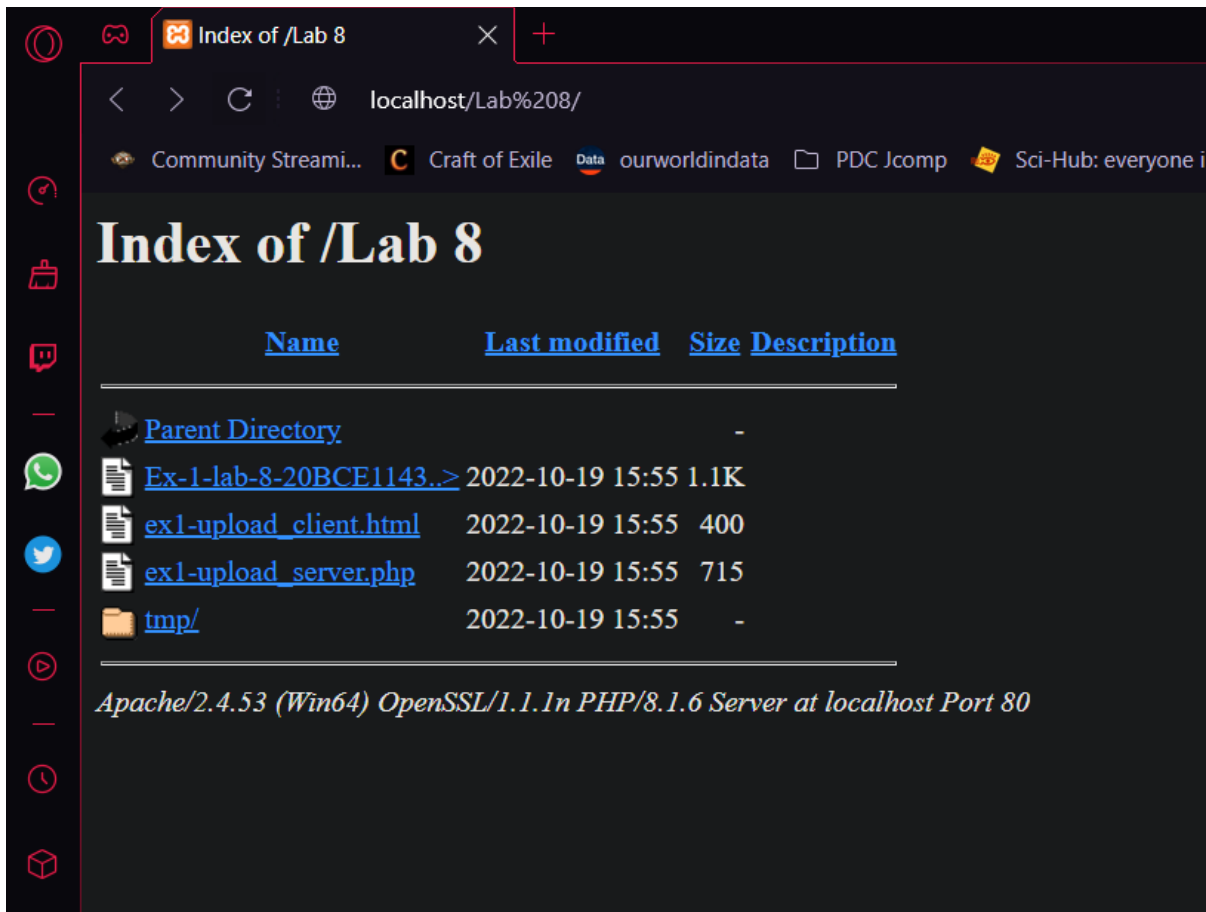Advait Deochakke
20BCE1143

Exercise –8

PHP – MySQL

Note:

i.   **View your registration number in the title bar and snap a screenshot of output along with the title bar.**

ii. **Screenshot is required for every modifications of the web page.**

(1)   Write a PHP program to perform the following file operations:

Index of /Lab 8

Name	Last modified	Size	Description
Parent Directory		-	
Ex-1-lab-8-20BCE1143..>	2022-10-19 15:55	1.1K	
ex1-upload_client.html	2022-10-19 15:55	400	
ex1-upload_server.php	2022-10-19 15:55	715	
tmp/	2022-10-19 15:55	-	

Apache/2.4.53 (Win64) OpenSSL/1.1.1n PHP/8.1.6 Server at localhost Port 80
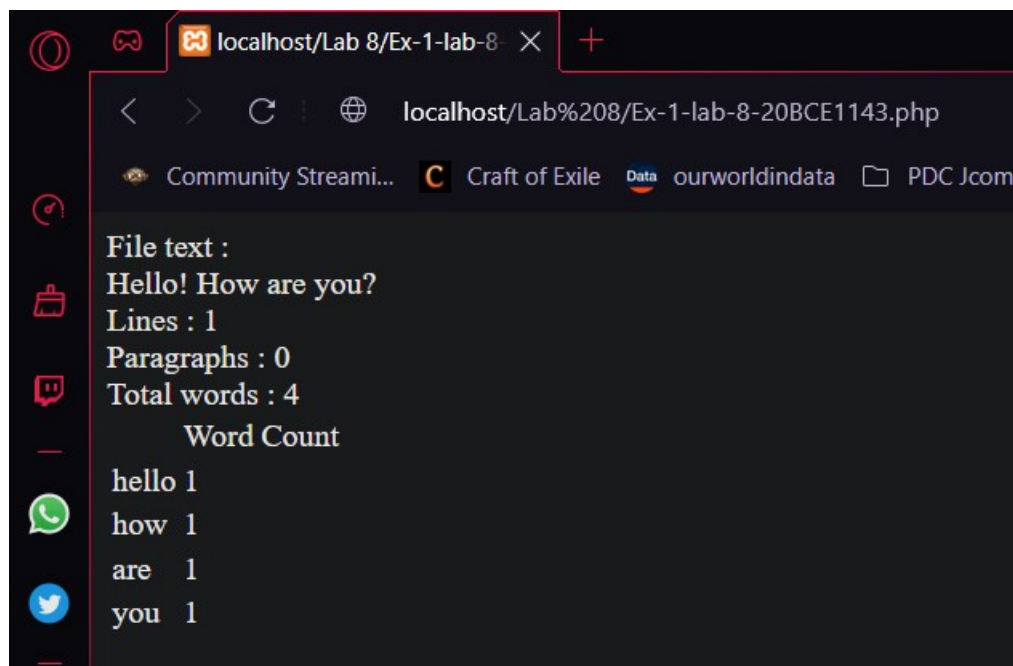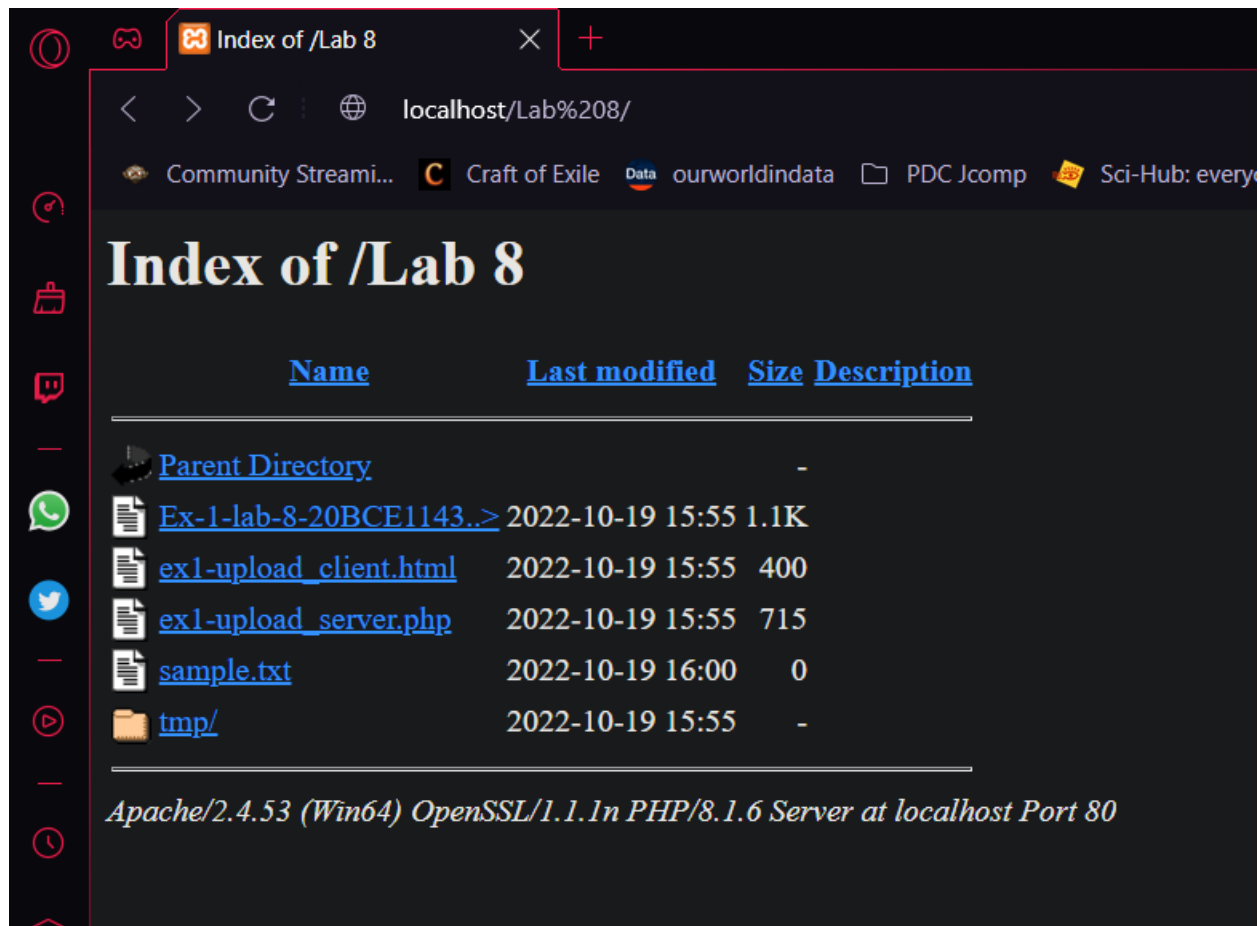
<Full code after question>

(i)   Open a text file named **sample.txt**. If file not exists, your program should raise an error message and create a new file.
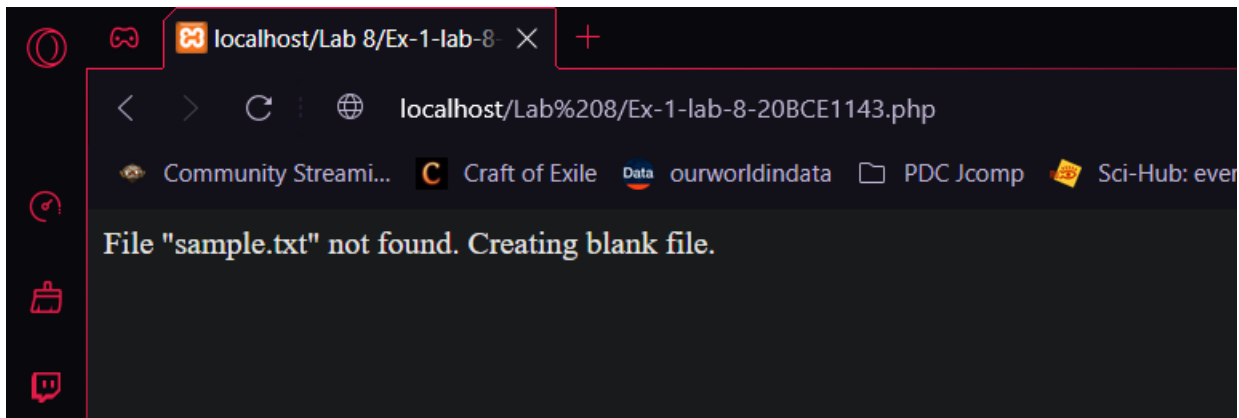
Code screenshot:

```php
<?php
$myfile = NULL;
if(!file_exists("sample.txt"))
    {
        echo "\nFile \"sample.txt\" not found. Creating blank file.";
        $myfile = fopen("sample.txt", "w");
        die;
    }
}
```

(ii)   Append the data "**Hello! How are you?**" to that file.

(iii)   Count and print the number of lines and paragraphs in that file.

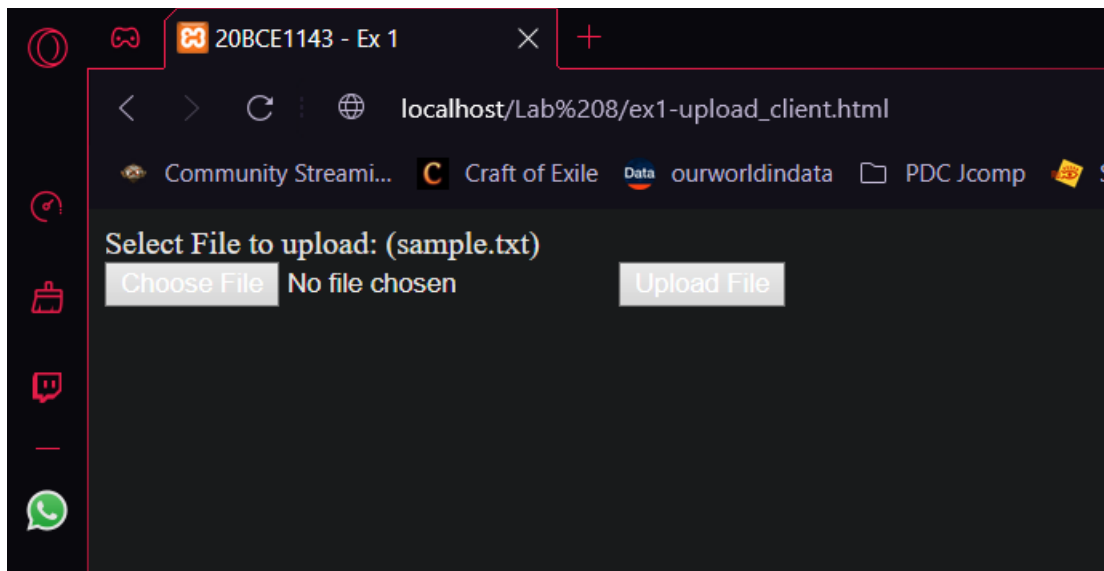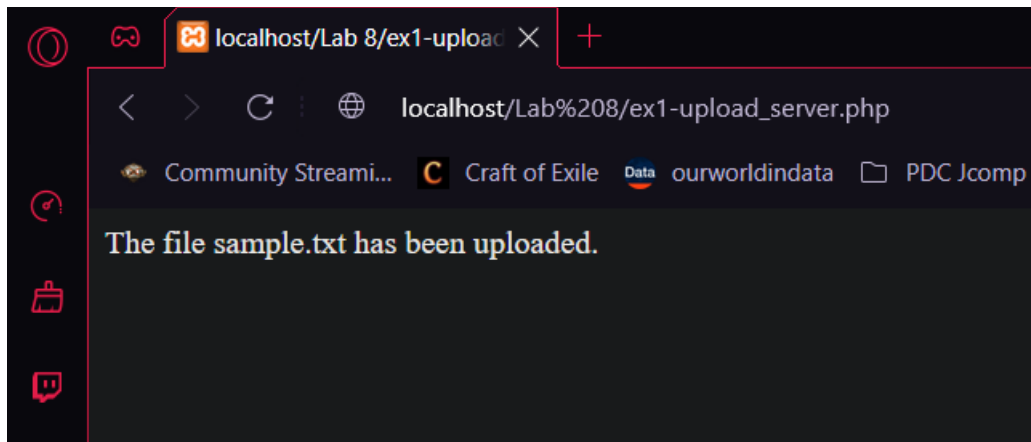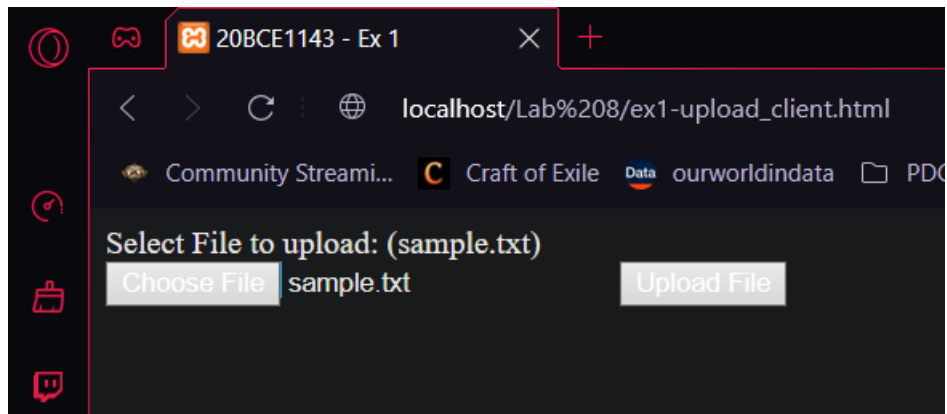(iv)   Count the number of words and print on a web page how many times the word appears in the file.

Index of /Lab 8

Name	Last modified	Size	Description
Parent Directory		-	
Ex-1-lab-8-20BCE1143..>	2022-10-19 15:55	1.1K	
ex1-upload_client.html	2022-10-19 15:55	400	
ex1-upload_server.php	2022-10-19 15:55	715	
sample.txt	2022-10-19 16:00	0	
tmp/	2022-10-19 15:55	-	

Apache/2.4.53 (Win64) OpenSSL/1.1.1n PHP/8.1.6 Server at localhost Port 80

File text :
Hello! How are you?
Lines : 1
Paragraphs : 0
Total words : 4

Word Count

hello 1

how 1

are 1

you 1

Code:

```php
 9    $myfile = fopen("sample.txt", "r+");
10    $txt =   "Hello! How are you?";
11    fwrite($myfile, $txt);
12    fclose($myfile);
13    $myfile = fopen("sample.txt", "r+");
14    //contents of file and number of lines+para
15    $lines=0;
16    $para=0;
17    echo "File text : <br>";
18    while(!feof($myfile))
19    {
20        $filetxt = fgets($myfile);
21        echo $filetxt."<br>";
22        $lines++;
23        if(substr_count($filetxt, "<p>")>0 || substr_count($filetxt, "<P>")>0))
24            $para++;
25    }
26    echo "Lines : $lines<br>Paragraphs : $para<br>";
27    fclose($myfile);
```

```php
29    //word counts
30    $myfile = fopen("sample.txt", "r+");
31    $fulltext = fread($myfile, filesize("sample.txt"));
32    $filetextArray = array_count_values(str_word_count(strtolower($fulltext), 1));
33    echo "Total words : ".count($filetextArray)."<br>";
34    echo "<table><th><td>Word</td><td>Count</td></th>";
35    foreach($filetextArray as $word=>$count)
36    {
37        echo "<tr><td>$word</td><td>$count</td></tr>";
38    }
39    echo "</table>";
40    fclose($myfile);
41    ?>
42
```

(v) Upload the file to the any /temp directory.

Index of /Lab 8/tmp

Name	Last modified	Size	Description
Parent Directory		-	
sample.txt	2022-10-19 16:05	19	

Apache/2.4.53 (Win64) OpenSSL/1.1.1n PHP/8.1.6 Server at localhost Port 80

Code:


```html
<html>
  <head>
    <title>20BCE1143 - Ex 1</title>
  </head>
  <body>
    <form action="ex1-upload_server.php" method="post" enctype="multipart/form-data">
        Select File to upload: (sample.txt) <br>
        <input type="file" name="fileToUpload" id="fileToUpload">
        <input type="submit" value="Upload File" name="submit">
    </form>
  </body>
</html>
```

```php
<?php
//uploading to some directory
//file_uploads is On
$target_file_path = "tmp/".basename($_FILES["fileToUpload"]["name"]);
$uploadOk = 1;

//perform various checks when actually implementing. For us, not needed
if(isset($_POST["submit"]))
    $uploadOk=1;
else
    $uploadOk=0;

// Check if $uploadOk is set to 0 by an error
if ($uploadOk == 0)
{
  echo "Sorry, your file was not uploaded.";
}
else
{
  if (move_uploaded_file($_FILES["fileToUpload"]["tmp_name"], $target_file_path))
  {
    echo "The file ". htmlspecialchars(basename($_FILES["fileToUpload"]["name"])). " has been uploaded.";
  }
  else
  {
    echo "Sorry, there was an error uploading your file.";
  }
}

?>
```

Full Code : First few questions →

```php
<?php

$myfile = NULL;
if(!file_exists("sample.txt"))
   {
       echo "\nFile \"sample.txt\" not found. Creating blank file.";
       $myfile = fopen("sample.txt", "w");
       die;
   }
$myfile = fopen("sample.txt", "r+");
$txt =  "Hello! How are you?";
fwrite($myfile, $txt);
fclose($myfile);
$myfile = fopen("sample.txt", "r+");
```

```php
//contents of file and number of lines+para
$lines=0;
$para=0;
echo "File text : <br>";
while(!feof($myfile))
{
    $filetxt = fgets($myfile);
    echo $filetxt."<br>";
    $lines++;
    if(substr_count($filetxt, "<p>")>0 || substr_count($filetxt,
"<P>")>0))
        $para++;
}
echo "Lines : $lines<br>Paragraphs : $para<br>";
fclose($myfile);

//word counts
$myfile = fopen("sample.txt", "r+");
$fulltext = fread($myfile, filesize("sample.txt"));
$filetextArray =
array_count_values(str_word_count(strtolower($fulltext), 1));
echo "Total words : ".count($filetextArray)."<br>";
echo "<table><th><td>Word</td><td>Count</td></th>";
foreach($filetextArray as $word=>$count)
{
    echo "<tr><td>$word</td><td>$count</td></tr>";
}
echo "</table>";
fclose($myfile);
?>
```

Last Question →

HTML

```html
<html>

    <head>
        <title>20BCE1143 - Ex 1</title>
    </head>
    <body>
        <form action="ex1-upload_server.php" method="post"
enctype="multipart/form-data">
```

```
      Select File to upload: (sample.txt) <br>
        <input type="file" name="fileToUpload" id="fileToUpload">
        <input type="submit" value="Upload File" name="submit">
    </form>
    </body>
</html>
```

CSS :

```php
<?php

//uploading to some directory
//file_uploads is On
$target_file_path = "tmp/".basename($_FILES["fileToUpload"]["name"]);
$uploadOk = 1;

//perform various checks when actually implementing. For us, not
needed
if(isset($_POST["submit"]))
  $uploadOk=1;
else
  $uploadOk=0;

// Check if $uploadOk is set to 0 by an error
if ($uploadOk == 0)
{
 echo "Sorry, your file was not uploaded.";
}
else
{
 if (move_uploaded_file($_FILES["fileToUpload"]["tmp_name"],
$target_file_path))
 {
  echo "The file ". htmlspecialchars(basename($_FILES["fileToUpload"]
["name"])). " has been uploaded.";
 }
 else
 {
  echo "Sorry, there was an error uploading your file.";
 }
}

?>
```

(2) Develop the website for insurance company for their customers using HTML, PHP, MySQL (10 marks)

a) Create a database of customers with policy details

```php
ex-2-mysql.php
1   <?php
2   $servername = "localhost";
3   $username = "advait_localhost";
4   $password = "password";
5   $dbname = "lab8";
6
7   // Create connection
8   $conn = new mysqli($servername, $username, $password, $dbname);
9
10  // Check connection
11  if ($conn->connect_error) {
12    die("Connection failed: " . $conn->connect_error);
13  }
14  echo "Connected successfully";
15
16  $sql = "CREATE DATABASE lab8";
17  if ($conn->query($sql) === TRUE)
18  {
19    echo "Database created successfully";
20  }
21  else
22  {
23    echo "Error creating database: " . $conn->error;
24  }
```

```php
27    $sql = "CREATE TABLE PolicyDetails (
28        policy_id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
29        custname VARCHAR(30) NOT NULL,
30        policytype VARCHAR(50) not null,
31        cust_id int(6) unsigned not null
32        )";
33    if ($conn->query($sql) === TRUE)
34    {
35        echo "<br>Table PolicyDetails created successfully";
36    }
37    else
38    {
39        echo "<br>Error creating table: " . $conn->error;
40    }
41
```
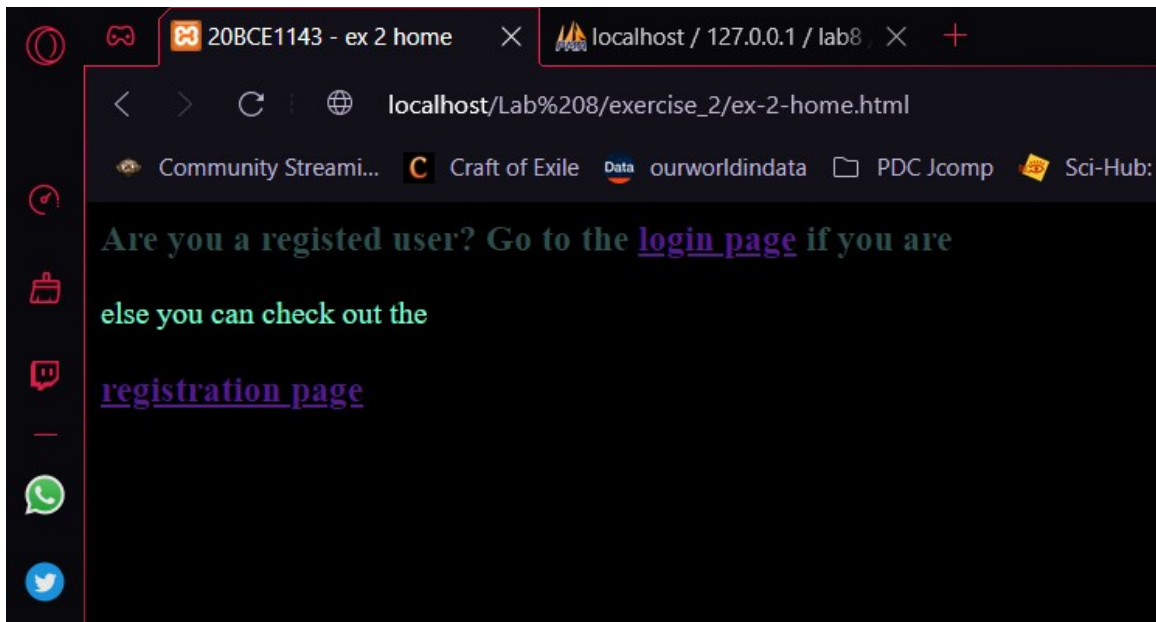
```php
42    $sql = "CREATE TABLE CustDetails (
43        cust_id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
44        custname VARCHAR(30) NOT NULL,
45        custpass VARCHAR(30) not null
46        )";
47    if ($conn->query($sql) === TRUE)
48    {
49        echo "<br>Table CustDetails created successfully";
50    }
51    else
52    {
53        echo "<br>Error creating table: " . $conn->error;
54    }
55
```

b) Create a Login screen with sign-up and sign-in options

Code:

```html
<head>
  <title>
    20BCE1143 - ex 2 home
  </title>
</head>
<body style="background-color:black; color: aquamarine;">
  <h3 style="color:darkslategray;">Are you a registed user? Go to the
<a href="login_page.php">login page</a> if you are<br></h3>
  else you can check out the <br>
  <h3 style="color:darkslategray;"><a
href="register_page.php">registration page</a></h3>
</body>
```

Register for The Service

Username: [_____] *

Password: [_____] *

Retype Password: [_____]

[Submit]

Head back to the home page

Code:

```
<head>
    <title>register page</title>
    <style>
        .error
        {
            color:red;
        }
    </style>
</head>
<body>
    <?php
        //Note: implementing without sessions and password hashing, as
should be done ideally.
        $servername = "localhost";
        $username = "advait_localhost";
        $password = "password";
```

```php
    $dbname = "lab8";

    // Create connection
    $conn = new mysqli($servername, $username, $password, $dbname);

    // Check connection
    if ($conn->connect_error) {
    die("<br>Connection failed: " . $conn->connect_error);
    }
    //echo "<br>Connected successfully";
    $nameErr = "";
    $pwdErr = "";
    $repwdErr = "";
    $mysql = "";
    if($_SERVER["REQUEST_METHOD"] == "POST")
    {
     if (empty($_POST["name"]))
     {
       $nameErr = "Required to Enter Name";
     }
     else if (empty($_POST["pwd"]))
     {
       $pwdErr = "Required to Enter Password";
     }
     else if (empty($_POST["repwd"]))
     {
       $repwdErr = "Required to Enter Retype Password";
     }
     else
     {
       $enteredpwd = test_input($_POST["pwd"]);
       $retypedpwd = test_input($_POST["repwd"]);
       if($enteredpwd==$retypedpwd)
       {
         $custname = test_input($_POST["name"]);

         $sql = "Insert into CustDetails (custname, custpass) values
('$custname', '$enteredpwd')";
         if(mysqli_query($conn, $sql))
         {
           $last_id = $conn->insert_id;
          echo "New record created successfully for customer name
$custname<br>";
          echo "Your customer ID is : $last_id <br><br>";
         }
```

```php
        else
        {
            echo "Error: <br>".mysqli_error($conn);
        }
    }
    else
    {
        echo "Passwords dont match<br>";
    }
  }
}

function test_input($data) {
  $data = trim($data);
  $data = stripslashes($data);
  $data = htmlspecialchars($data);
  return $data;
}
?>
<h2> Register for The Service </h2><br>
<form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
  Username: <input type="text" name="name">
  <span class="error">* <?php echo $nameErr;?></span>
  <br><br>
  Password: <input type="password" name="pwd">
  <span class="error">* <?php echo $pwdErr;?></span>
  <br><br>
  Retype Password: <input type="password" name="repwd">
  <span class="error"><?php echo $repwdErr;?></span>
  <br><br>
  <input type="submit" name="submit" value="Submit">
</form>

<?php

$conn->close();
?>

<br>
<a href="ex-2-home.html">Head back to the home page</a>
</body>
```

Register for The Service

Username: Test1 *

Password: •• *

Retype Password: •••••

Submit

Head back to the home page

Passwords dont match

Register for The Service

Username: *

Password: *

Retype Password:

Submit

Head back to the home page

New record created successfully for customer name Advait
Your customer ID is : 2

Register for The Service

Username: [   ] *

Password: [   ] *

Retype Password: [   ]

[Submit]

Head back to the home page

Register for The Service

Username: [   ] * Required to Enter Name

Password: [   ] *

Retype Password: [   ]

[Submit]

Head back to the home page
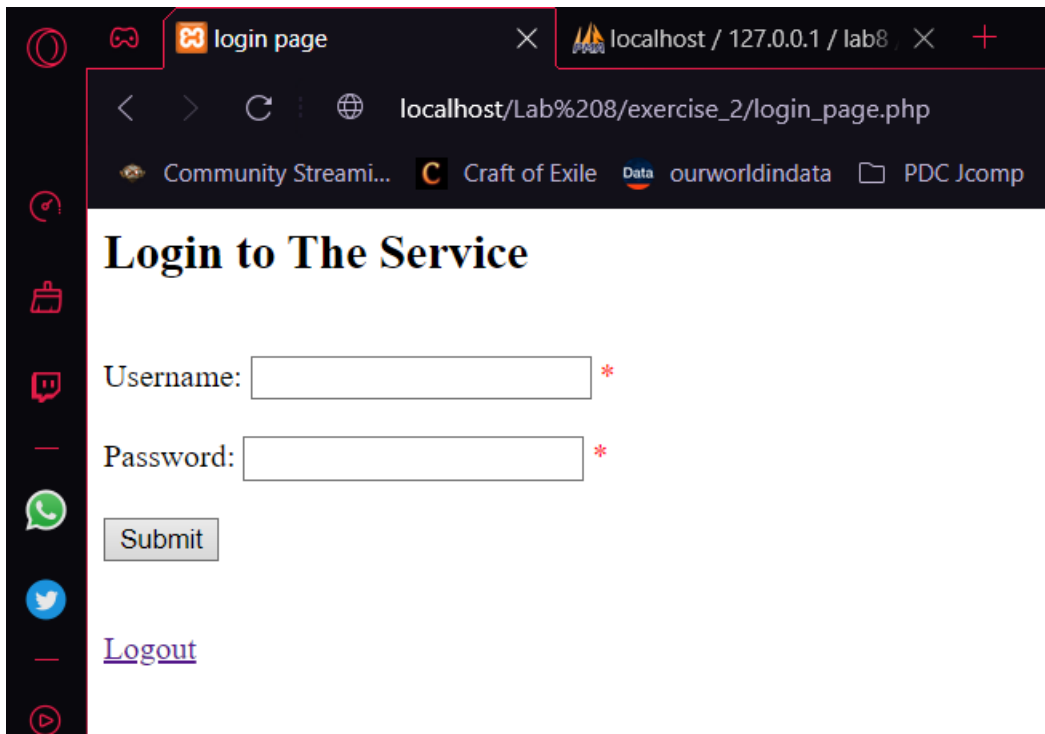
Code:

```html
<head>
    <title>login page</title>
    <style>
        .error
        {
            color:red;
        }
    </style>
</head>
<body>
    <?php
    //Note: implementing without sessions and password hashing, as
should be done ideally.
    $servername = "localhost";
    $username = "advait_localhost";
    $password = "password";
    $dbname = "lab8";
```

```php
    // Create connection
    $conn = new mysqli($servername, $username, $password, $dbname);

    // Check connection
    if ($conn->connect_error) {
    die("<br>Connection failed: " . $conn->connect_error);
    }
    //echo "<br>Connected successfully";
    $nameErr = "";
    $pwdErr = "";
    $mysql = "";
    if($_SERVER["REQUEST_METHOD"] == "POST")
    {
    if (empty($_POST["name"]))
    {
        $nameErr = "Required to Enter Name";
    }
    else if (empty($_POST["pwd"]))
    {
        $pwdErr = "Required to Enter Password";
    }
    else
    {
        $enteredname = test_input($_POST["name"]);
        $enteredpwd = test_input($_POST["pwd"]);
        $sql = "select cust_id from CustDetails where
custname='$enteredname' and custpass='$enteredpwd'";
        $result = mysqli_query($conn, $sql);
        if(mysqli_num_rows($result)==1)
        {
        $row = $result->fetch_assoc();
        $custid = $row["cust_id"];
        $sql = "select policy_id, custname, policytype from
policydetails where cust_id=$custid";
        $poliresult = mysqli_query($conn, $sql);

        if($poliresult->num_rows > 0)
        {
        echo "<table><th><td>Policy ID</td><td>Policy
Type</td></th>";
            while($row = $poliresult->fetch_assoc())
            {
            echo "<tr><td>".$row["policy_id"]."</td><td>".
$row["policytype"]."</td></tr>";
```

```php
			}
			echo "</table><br>";
		}
		else
		{
			echo "No policies registered ! <br>";
			echo "Cust name : $enteredname<br>";
		}
	}
	else
	{
		echo "Incorrect Username or Password<br>";
	}
	}
	}


	function test_input($data) {
		$data = trim($data);
		$data = stripslashes($data);
		$data = htmlspecialchars($data);
		return $data;
	}
?>
<h2> Login to The Service </h2><br>
<form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
	Username: <input type="text" name="name">
	<span class="error">* <?php echo $nameErr;?></span>
	<br><br>
	Password: <input type="password" name="pwd">
	<span class="error">* <?php echo $pwdErr;?></span>
	<br><br>
	<input type="submit" name="submit" value="Submit">
</form>

<?php

	$conn->close();
?>
<br>
<a href="ex-2-logout.html">Logout</a>
</body>
```
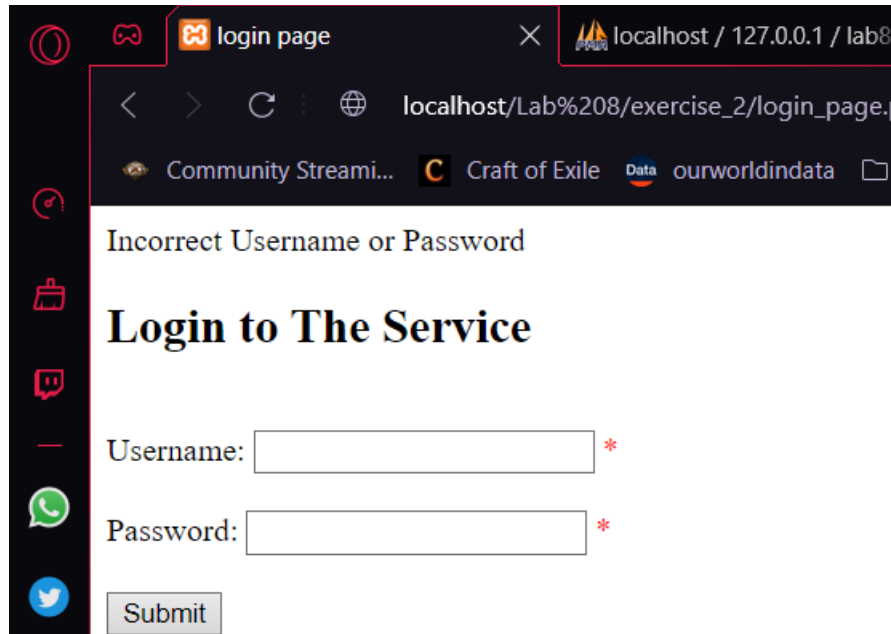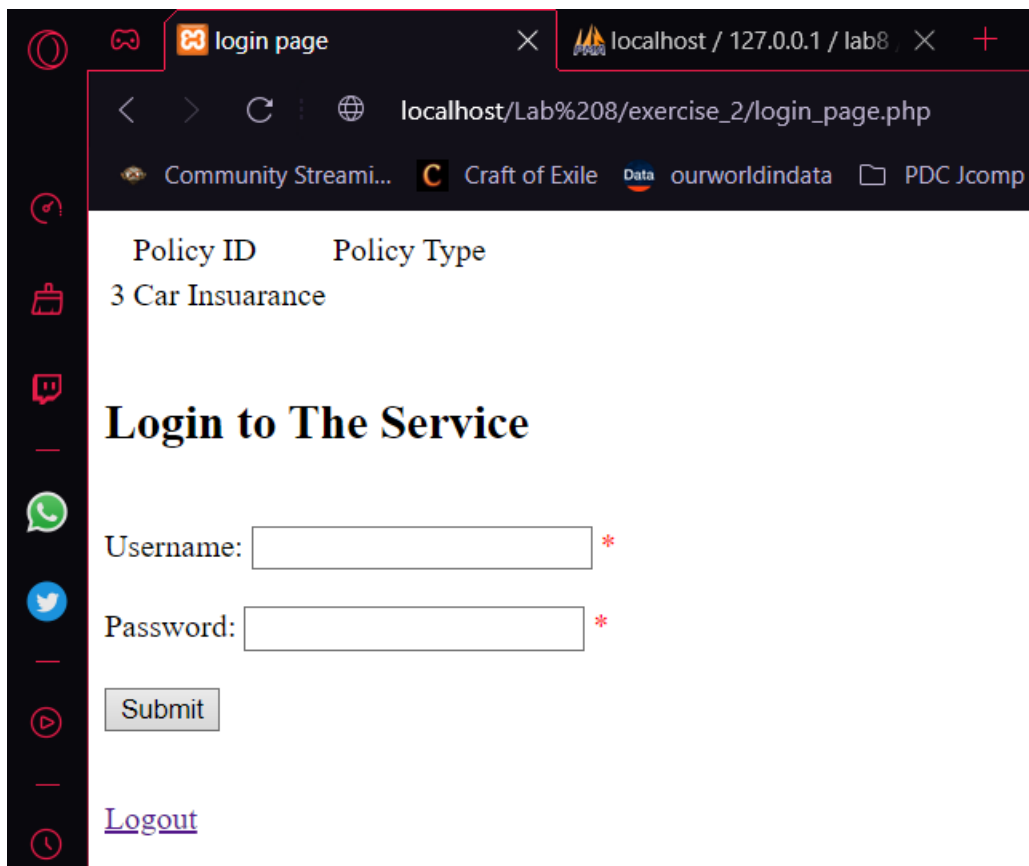
c) After sign in, get the policy number to display the policy details

Policy ID   Policy Type
1 Home Insuarance
2 Life Insuarance

Login to The Service

Username: [   ] *

Password: [   ] *

[Submit]

No policies registered !
Cust name : SaveMe

Login to The Service

Username: [   ] *

Password: [   ] *

[Submit]

Code in the question above