# TITLE: Session Management, File handling and Error handling

### PRACTICAL -6

### Session Management, File handling and Error Handling

Q-1. Create a Php page which takes the student's name and marks of three subjects from the user. Manage all information via session and display all information on the next page.

code:

```
INDEX.html
```

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Student result</title>
   <style>
      input{
          width: 100%;
       }
   </style>
</head>
<body>
   <form method="POST" name ="frm" action="./data1.php">
      Marksheet
          <input type="text" placeholder="Enter name"
name="fname" required>
          <input type="number" placeholder="Enter 1st subject
mark" name="m1" max="100" min="0" required>
```

#### **DATA1.PHP**

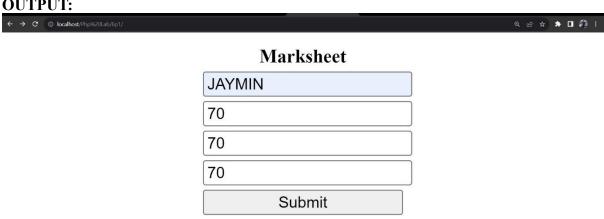
```
<?php
   extract($_REQUEST);
   if(isset($sbt))
   {

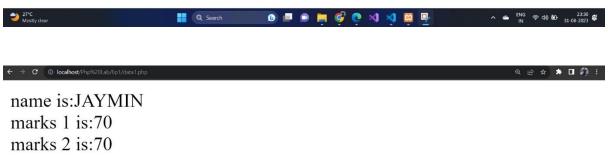
     session_start();
     $_SESSION['fname']=$fname;
     $_SESSION['m1']=$m1;
     $_SESSION['m2']=$m2;
     $_SESSION['m3']=$m3;
   }

echo("name is:".$_SESSION['fname']."<br>");
echo("marks 1 is:".$_SESSION['m1']."<br>");
echo("marks 2 is:".$_SESSION['m2']."<br>");
echo("marks 3 is:".$_SESSION['m3']."<br>");
```

?>

#### **OUTPUT:**





marks 3 is:70



Q-2) Create php code which do following task Signup.php: take username and password from user and select hobbies(from checkbox) & store information as session variable. Store password in encrypted format using md5 encryption.

Viewhobbie.php: if session variable username not set display "login required" message else display the hobbies of respective user in a well designed page. Singout.php: clear the session variables.

# Code: Signup.php:

```
<?php
session start();
if ($ SERVER['REQUEST METHOD'] === 'POST') {
    $username = $ POST['username'];
    $password = md5($ POST['password']); // Encrypting the password with
MD5 (not secure for production use)
    $hobbies = isset($ POST['hobbies']) ? $ POST['hobbies'] : array();
    $ SESSION['user info'] = array(
        'username' => $username,
        'password' => $password,
        'hobbies' => $hobbies
    );
    header('Location: viewhobbies.php');
    exit();
}
?>
<!DOCTYPE html>
<html>
<head>
    <title>Signup</title>
</head>
<body>
    <h1>Signup</h1>
    <form method="POST" action="">
```

#### Viewhobbies.php

```
<title>View Hobbies</title>
</head>
<body>
    <h1>Welcome, <?php echo $username; ?></h1>
    <h2>Your Hobbies:</h2>
    <l
        <?php foreach ($hobbies as $hobby) {</pre>
            echo "$hobby";
        } ?>
    </body>
</html>
Singout.php
<?php
session start();
session unset();
session destroy();
header('Location: signup.php');
exit();
?>
← → C ③ localhost/Php%20Lab/6p2/signup.html
                                                                   역 🖒 ☆ 🖈 🗖 🦓 :
                Sing in form
          JAYMIN
           ••••
                                      ✓ maths ✓ Sceince □ Finance
          Hobbies
           Submit
```





Hobbies: maths science



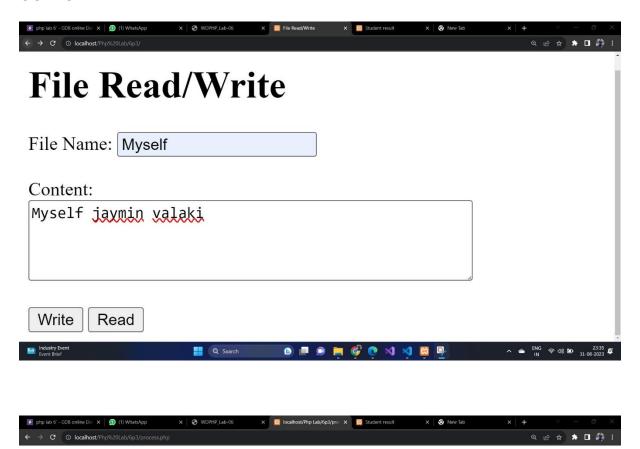
Q-3) Develop a HTML form which takes the file name and string form the user. Create a php script which creates or opens a file (if it already exists) and appends the string into the given file when the write button is clicked. On click on read button it displays the content of the file into the browser. Code:

#### **Index.html:**

#### PRCOCESS.PHP

```
<?php
if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    $filename = $ POST['filename'];
    $content = $ POST['content'];
    if (isset($ POST['write'])) {
        // Open the file in append mode and write the content
        $file = fopen($filename, 'a');
        if ($file) {
           fwrite($file, $content . "\n");
           fclose($file);
           echo "Content has been written to the file.";
        } else {
           echo "Error opening the file for writing.";
    } elseif (isset($ POST['read'])) {
        // Read the content from the file and display it
        if (file_exists($filename)) {
           $fileContent = file_get_contents($filename);
           echo "<h2>File Content:</h2>";
           echo "$fileContent";
        } else {
           echo "File not found.";
        }
    }
}
```

#### **OUTPUT**



Data written successfully



Q-4) Create a php application which has a login page, a product page, cart display page, purchase message page and logout page. Users can login into the system using username and password which are validated from an already stored file on the server. Once a user is logged in successfully the user can select a product to buy and quantity to buy. User can review the selected product with invoice details in cart page and click on buy to purchase and can signout from application

code:

#### **SIGNUP.PHP**

```
<!DOCTYPE html>
<html>
<head>
   <title>Sign Up</title>
</head>
<body>
   <h1>Sign Up</h1>
   <?php
   if (isset($ GET['error'])) {
       if ($ GET['error'] == 'empty') {
           echo 'Please fill in all fields';
       } elseif ($ GET['error'] == 'user exists') {
           echo 'Username already exists';
       }
   }
   ?>
   <form action="register.php" method="post">
       <label for="username">Username:</label>
       <input type="text" id="username" name="username"><br><br>
       <label for="password">Password:</label>
       <input type="password" id="password" name="password"><br><br>
       <input type="submit" value="Sign Up">
   </form>
</body>
</html>
```

#### **LOGIN.PHP**

```
<?php
session start();
if (isset($_SESSION['username'])) {
   header('Location: product.php');
   exit;
}
?>
<!DOCTYPE html>
<html>
<head>
   <title>Login</title>
</head>
<body>
   <h1>Login</h1>
   <?php
   if (isset($_GET['error'])) {
       echo 'Invalid username or password';
    }
    ?>
   <form action="authenticate.php" method="post">
       <label for="username">Username:</label>
       <input type="text" id="username" name="username"><br><br>
       <label for="password">Password:</label>
       <input type="password" id="password" name="password"><br><br>
       <input type="submit" value="Login">
   </form>
    Don't have an account? <a href="signup.php">Sign up</a>
</body>
</html>
```

#### Register.php

```
<?php
if (isset($_POST['username']) && isset($_POST['password'])) {</pre>
```

```
$username = $ POST['username'];
    $password = $ POST['password'];
    if (empty($username) || empty($password)) {
        header('Location: signup.php?error=empty');
        exit;
    }
    $users = file get contents('users.txt');
    if (strpos($users, $username) !== false) {
        header('Location: signup.php?error=user exists');
        exit;
    }
    file put contents('users.txt', "$username,$password\n", FILE APPEND);
    header('Location: login.php');
} else {
    header('Location: signup.php');
?>
Addtocart.php
<?php
session_start();
if (!isset($ SESSION['username'])) {
    header('Location: login.php');
    exit;
}
if (isset($_POST['id']) && isset($_POST['quantity'])) {
    $id = $ POST['id'];
    $quantity = $_POST['quantity'];
```

```
if (!isset($_SESSION['cart'])) {
        $_SESSION['cart'] = [];
    }
    if (isset($_SESSION['cart'][$id])) {
        $_SESSION['cart'][$id] += $quantity;
    } else {
        $_SESSION['cart'][$id] = $quantity;
    }
}
?>
Cart.php
<?php
session_start();
if (!isset($_SESSION['username'])) {
    header('Location: login.php');
    exit;
}
$products = [
  ['id' => 1, 'name' => 'Product 1', 'price' => 10],
  ['id' => 2, 'name' => 'Product 2', 'price' => 20],
  ['id' => 3, 'name' => 'Product 3', 'price' => 30],
];
$cart = isset($_SESSION['cart']) ? $_SESSION['cart'] : [];
total = 0;
?>
<!DOCTYPE html>
<html>
<head>
   <title>Cart</title>
</head]
```

```
<body>
   <h1>Cart</h1>
   Welcome, <?php echo $ SESSION['username']; ?>! <a</p>
href="logout.php">Logout</a>
   <?php if (empty($cart)): ?>
   Your cart is empty.
   <?php else: ?>
   Name
          Price
          Ouantity
          Subtotal
      <?php foreach ($cart as $id => $quantity): ?>
      $product = array filter($products, function ($p) use ($id) { return
$p['id'] == $id; });
      $product = array shift($product);
      $subtotal = $product['price'] * $quantity;
      $total += $subtotal;
      ?>
      <tr]
          <?php echo $product['name']; ?></td]
          <?php echo $product['price']; ?></td]
          <?php echo $quantity; ?></td]
          <?php echo $subtotal; ?></td]
          <?php endforeach; ?>
      Total
          <?php echo $total; ?>
      <form action="purchase.php" method="post">
```

```
<input type="submit" value="Checkout">
    </form>
    <?php endif; ?>
    <a href="product.php">Continue Shopping</a>
</body>
</html>
Autenticate.php
<?php
session_start();
if (isset($_POST['username']) && isset($_POST['password'])) {
    $username = $_POST['username'];
    $password = $ POST['password'];
    $users = file get contents('users.txt');
    $users = explode("\n", $users);
    foreach ($users as $user) {
        list(\$u, \$p) = explode(',', \$user);
        if ($u == \$username \&\& \$p == \$password) {
            $ SESSION['username'] = $username;
            header('Location: product.php');
            exit;
    }
    header('Location: login.php?error=1');
} else {
    header('Location: login.php');
}
?>
Products.php
<?php
session start();
if (!isset($_SESSION['username'])) {
```

```
header('Location: login.php');
   exit;
}
$products = [
 ['id' => 1, 'name' => 'Product 1', 'price' => 10],
 ['id' => 2, 'name' => 'Product 2', 'price' => 20],
 ['id' => 3, 'name' => 'Product 3', 'price' => 30],
];
?>
<!DOCTYPE html>
<html>
<head>
   <title>Products</title>
</head>
<body>
   <h1>Products</h1>
   Welcome, <?php echo $ SESSION['username']; ?>! <a
href="logout.php">Logout</a>
   Name
          Price
          Quantity
          <?php foreach ($products as $product): ?>
       <?php echo $product['name']; ?>
          <?php echo $product['price']; ?>
          <input type="number" id="quantity-<?php echo
$product['id']; ?>" value="1">
          <button onclick="addToCart(<?php echo $product['id'];
?>)">Add to Cart</button>
       <?php endforeach; ?>
```

```
<a href="cart.php">View Cart</a>
    <script>
    function addToCart(id) {
        var quantity = document.getElementById('quantity-' + id).value;
        var xhr = new XMLHttpRequest();
        xhr.onreadystatechange = function() {
            if (this.readyState == 4 && this.status == 200) {
               alert('Product added to cart');
            }
        } ;
        xhr.open('POST', 'add to cart.php', true);
        xhr.setRequestHeader('Content-type', 'application/x-www-form-
urlencoded');
        xhr.send('id=' + id + '&quantity=' + quantity);
    }
    </script>
</body>
</html>
Purchase.php
<?php
session_start();
if (!isset($_SESSION['username'])) {
    header('Location: login.php');
    exit;
}
unset($ SESSION['cart']);
?>
<!DOCTYPE html>
<html>
<head>
    <title>Purchase</title>
</head>
```

#### **OUTPUT**

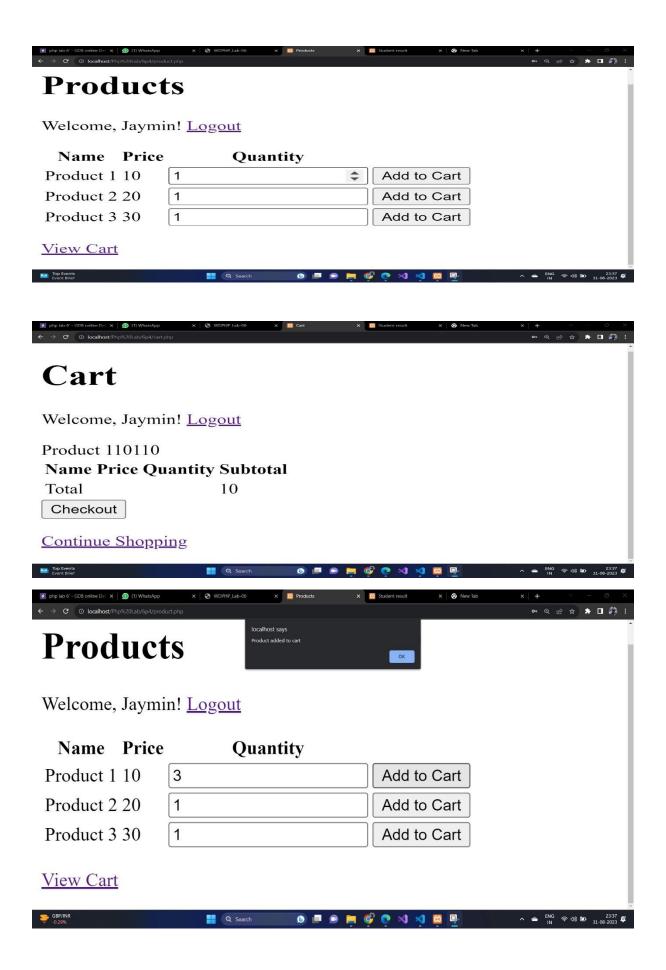


# Sign Up

Username: Jaymin
Password: ••••

Sign Up





Q-5) Develop a PHP form to get students marks of 5 subjects and generate results. Take the following inputs: Exam No, Course (Drop Down), Student photo and Semester. The photo should not be greater than 25 kb in size and must be in JPEG format. Check necessary validation and provide the option to upload the photograph on click on upload button. Display the rest of the detail on the browser on click on submit button. Code:

#### Index.html

```
<!DOCTYPE html>
<html>
<head>
    <title>Student Result</title>
</head>
<body>
    <h1>Student Result</h1>
    <form method="POST" action="process.php" enctype="multipart/form-data">
        <label for="exam no">Exam No:</label>
        <input type="text" id="exam no" name="exam no" required><br><br>
        <label for="course">Course:</label>
        <select id="course" name="course">
            <option value="Math">Math
            <option value="Science">Science</option>
            <option value="History">History</option>
        </select><br><br><
        <label for="photo">Student Photo (JPEG, max 25KB):</label>
        <input type="file" id="photo" name="photo" accept="image/jpeg"</pre>
required><br><br>
        <label for="semester">Semester:</label>
        <input type="text" id="semester" name="semester" required><br><br>
        <input type="submit" name="submit" value="Submit">
    </form>
</body>
</html>
```

#### Data.php

```
<?php
if ($ SERVER['REQUEST METHOD'] === 'POST') {
    $examNo = $ POST['exam no'];
    $course = $ POST['course'];
    $semester = $ POST['semester'];
    // Get student marks from form input
    $subject1 = $ POST['subject1'];
    $subject2 = $ POST['subject2'];
    $subject3 = $ POST['subject3'];
    $subject4 = $ POST['subject4'];
    $subject5 = $ POST['subject5'];
    // Calculate total and average marks
    $totalMarks = $subject1 + $subject2 + $subject3 + $subject4 +
$subject5;
    $averageMarks = $totalMarks / 5;
    $photoFile = $ FILES['photo'];
    $photoName = $photoFile['name'];
    $photoSize = $photoFile['size'];
    $photoTmpName = $photoFile['tmp_name'];
    if (\$photoSize > 25600) { // 25KB in bytes
        echo "Error: Photo size exceeds 25KB.";
        exit();
    }
   if (!move_uploaded_file($photoTmpName, "photos/$photoName")) {
        echo "Error uploading photo.";
        exit();
    }
}
?>
```

```
<!DOCTYPE html>
<html>
<head>
   <title>Student Result</title>
</head>
<body>
   <h1>Student Result</h1>
   <h2>Exam No: <?php echo htmlspecialchars($examNo); ?></h2>
   Course: <?php echo htmlspecialchars($course); ?>
   Semester: <?php echo htmlspecialchars($semester); ?>
   <img src="photos/<?php echo htmlspecialchars($photoName); ?>"
alt="Student Photo"><br><br>
   <!-- Display student marks and result -->
   Subject 1: <?php echo htmlspecialchars($subject1); ?>
   Subject 2: <?php echo htmlspecialchars($subject2); ?>
   Subject 3: <?php echo htmlspecialchars($subject3); ?>
   Subject 4: <?php echo htmlspecialchars($subject4); ?>
   Subject 5: <?php echo htmlspecialchars($subject5); ?>
   Total Marks: <?php echo htmlspecialchars($totalMarks); ?>
   Average Marks: <?php echo htmlspecialchars($averageMarks); ?>
   <a href="index.php">Back to Form</a>
</body>
</html>
OUTPUT:
Student Result
Course: Math ~
Student Photo (JPEG, max 25KB): Choose File | book 1.jpg
Submit
```

## Q-6) Create a Php script to demonstrate different types of errors.(Notice, warning, error)

Code:

```
Index.php
```

```
<?php
// Notice Error
variable1 = 5;
echo $variable1; // This will work fine
echo $variable2; // This will generate a notice error because $variable2
is not defined
// Warning Error
$file = fopen("nonexistent file.txt", "r"); // This will generate a
warning error because the file does not exist
// Error
function divide($a, $b) {
                 return $a / $b;
second form form for the first form of the fir
echo "This will not be displayed because of the error above.";
error reporting (E ALL & ~E NOTICE);
                 ini set('display errors', 1);
                 $x = $undefined variable;
```

#### **OUTPUT**

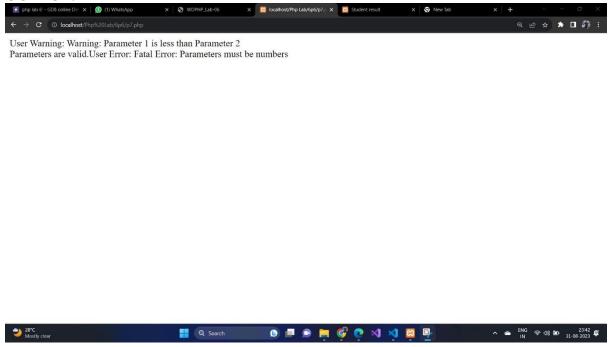


Q-7) Create PHP script for a custom error handling function in which two parameters are passed. If the first parameter is less than the second parameter then it should display a warning. If any of the parameters is not a number then it should generate fatal error

#### **Code:**

```
<?php
function customErrorHandler($errno, $errstr, $errfile, $errline) {
    switch ($errno) {
        case E USER WARNING:
            echo "User Warning: $errstr<br>";
            break;
        case E USER ERROR:
            echo "User Error: $errstr<br>";
            die();
        default:
            echo "Unknown error type: $errstr<br>";
            break;
    }
}
set error handler("customErrorHandler");
function checkParameters($param1, $param2) {
    if (!is numeric($param1) || !is numeric($param2)) {
        trigger error ("Fatal Error: Parameters must be numbers",
E USER ERROR);
    }
    if ($param1 < $param2) {</pre>
        trigger error ("Warning: Parameter 1 is less than Parameter 2",
E USER WARNING);
    }
    echo "Parameters are valid."; }
checkParameters(5, 10);
                            // No errors or warnings
checkParameters("abc", 10); // Fatal error
checkParameters(15, 8);  // Warning
?>
```

#### **OUTPUT:**



Q-8) Create a Php script which triggers an error/warning if the number entered by the user is negative with an appropriate message.

#### Code:

```
<!php
function customErrorHandler($errno, $errstr, $errfile, $errline) {
    echo "Error: $errstr<br>";
}
set_error_handler("customErrorHandler");
if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    $number = $_POST['number'];

    if ($number < 0) {
        trigger_error("Negative numbers are not allowed.", E_USER_WARNING);
    }
}
</pre>
```

#### **OUTPUT:**



### **Negative Number Check**

Enter a number: Check

