WEB DESIGN AND WEB DEVELOPMENT

ASSIGNMENT 3 - UNIT 3

NAME: Jeswanthika K

REGISTER NUMBER: 23BCS038

CLASS: III BSC CS “A”

SUBMISSION DATE: 17.08.2025

72. Write the PHP program to implement the following session functions.

(i)session_register() (ii) session_unset() (iii) session_destroy()

```
<?php
session_start();
$_SESSION["username"] = "Dhanu";
$_SESSION["email"] = "dhanu@gmail.com";
echo "<h3>Session variables are set.</h3>";
echo "Username: " . $_SESSION["username"] . "<br>";
echo "Email: " . $_SESSION["email"] . "<br>";
session_unset();
echo "<h3>After session_unset():</h3>";
var_dump($_SESSION);
session_destroy();
echo "<h3>Session destroyed.</h3>";
?>
```

OUTPUT:

73. Develop a PHP program to display an error message when a file other than jpg or png is uploaded.

```
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $fileName = $_FILES["myfile"]["name"];
    $fileTmp  = $_FILES["myfile"]["tmp_name"];
    $fileExt  = strtolower(pathinfo($fileName, PATHINFO_EXTENSION));
    $allowedExt = ["jpg", "jpeg", "png"];
    if (!in_array($fileExt, $allowedExt)) {
        echo "<h3 style='color:red;'>Error: Only JPG and PNG files are allowed!</h3>";
```

```
    } else {
        if (move_uploaded_file($fileTmp, "uploads/" . $fileName)) {
            echo "<h3 style='color:green;'>File uploaded successfully!</h3>";
        } else {
            echo "<h3 style='color:red;'>Error uploading file.</h3>";
        }
    }
}
?>
<form method="post" enctype="multipart/form-data">
    <label>Select image (JPG or PNG only):</label><br><br>
    <input type="file" name="myfile" required>
    <br><br>
    <input type="submit" value="Upload">
</form>
```

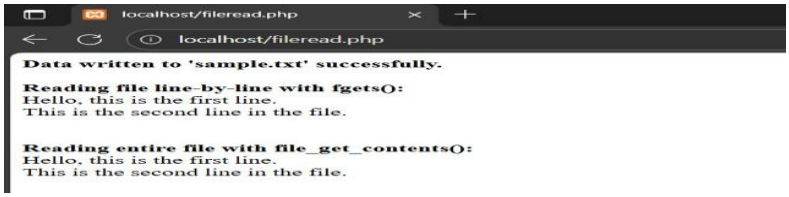
OUTPUT:

74. Outline the file reading and writing functions of PHP with suitable examples.

```
<?php
$file = fopen("sample.txt", "w");
if ($file) {
    fwrite($file, "Hello, this is the first line.\n");
    fwrite($file, "This is the second line in the file.\n");
    fclose($file);
    echo "<b>Data written to 'sample.txt' successfully.</b><br><br>";
} else {
    echo "Unable to open file for writing.<br>";
    exit;
}
```

```
$file = fopen("sample.txt", "r"); // Open file in read mode
if ($file) {
    echo "<b>Reading file line-by-line with fgets():</b><br>";
    while (!feof($file)) { // Loop until end of file
        echo fgets($file) . "<br>";
    }
    fclose($file);
} else {
    echo "Unable to open file for reading.<br>";
}
echo "<br><b>Reading entire file with file_get_contents():</b><br>";
$content = file_get_contents("sample.txt");
echo nl2br($content); // nl2br() to keep line breaks in HTML
?>
```

OUTPUT:



75. Build a PHP function that takes the filename and a new line of content as input. Append the new line of content as a new line at the end of the file.

```
<?php
function appendLineToFile($filename, $newLine) {
    $file = fopen($filename, "a");
    if ($file) {
        fwrite($file, $newLine . "\n");
        fclose($file);
        echo "Line appended successfully to '$filename'.<br>";
    } else {
        echo "Unable to open file: $filename<br>";
    }
```

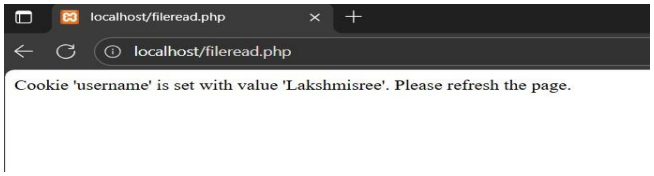
```
}
$filename = "mydata.txt";
$newContent = "This is a newly added line.";
appendLineToFile($filename, $newContent);
echo "<b>Current contents of '$filename':</b><br>";
echo nl2br(file_get_contents($filename));
?>
```

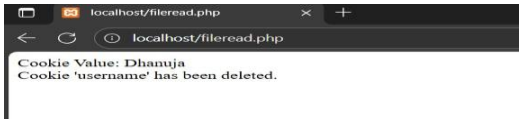
OUTPUT:

78. Elucidate the steps to read and delete existing cookies in the browser.

```
<?php
if (!isset($_COOKIE["username"])) {
    setcookie("username", "Dhanuja", time() + 3600, "/");
    echo "Cookie 'username' is set with value 'lakshmisree'. Please refresh the page.<br>";
} else {
    echo "Cookie Value: " . $_COOKIE["username"] . "<br>";
    setcookie("username", "", time() - 3600, "/");
    echo "Cookie 'username' has been deleted.<br>";
}
?>
```

OUTPUT:





79. Create a PHP program to append two files in another file.

```
<?php
```

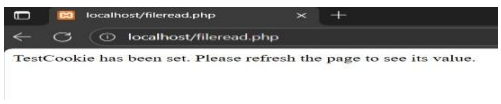
```
$file1 = "test.txt";
$file2 = "test2.txt";
$outputFile = "output.txt";
$content1 = file_get_contents($file1);
$content2 = file_get_contents($file2);
$fp = fopen($outputFile, "a");
fwrite($fp, $content1 . PHP_EOL);
fwrite($fp, $content2 . PHP_EOL);
fclose($fp);
echo "Files appended successfully to $outputFile";
?>
```

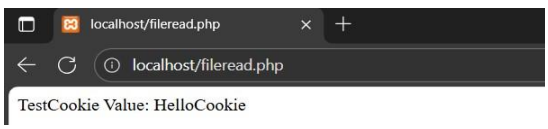
OUTPUT:

80. Build a test cookie with the setcookie( ) function using PHP.

```
<?php
setcookie("TestCookie", "HelloCookie", time() + 3600, "/");
if (isset($_COOKIE["TestCookie"])) {
    echo "TestCookie Value: " . $_COOKIE["TestCookie"];
} else {
    echo "TestCookie has been set. Please refresh the page to see its value.";
}?>
```

OUTPUT:

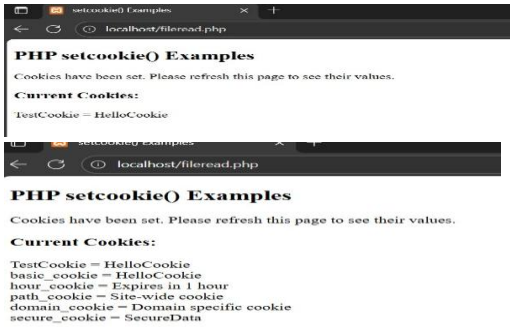




82. Implement the setcookie( ) function with various arguments using the PHP program.

```
<?php
setcookie("basic_cookie", "HelloCookie");
setcookie("hour_cookie", "Expires in 1 hour", time() + 3600);
setcookie("path_cookie", "Site-wide cookie", time() + 3600, "/");
setcookie("domain_cookie", "Domain specific cookie", time() + 3600, "/", "localhost");
setcookie("secure_cookie", "SecureData", time() + 3600, "/", "", true, true);
?>
<html>
<head>
   <title>setcookie() Examples</title>
</head>
<body>
<h2>PHP setcookie() Examples</h2>
<p>Cookies have been set. Please refresh this page to see their values.</p>
<?php
if (!empty($_COOKIE)) {
   echo "<h3>Current Cookies:</h3>";
   foreach ($_COOKIE as $name => $value) {
      echo htmlspecialchars($name) . " = " . htmlspecialchars($value) . "<br>";
   }
} else {
   echo "<p>No cookies found yet. Reload the page.</p>";
}
?>
</body>
</html>
```

OUTPUT:



83. Develop a PHP script to accept email addresses and validate it. Display the domain name of the email and result of validation.

```
<?php
$validationResult = "";
$domainName = "";
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $email = trim($_POST["email"]);
    if (filter_var($email, FILTER_VALIDATE_EMAIL)) {
        $validationResult = "Valid email address ";
        $parts = explode("@", $email);
        $domainName = $parts[1];
    } else {
        $validationResult = "Invalid email address ";
    }
}
?>
<html>
<head>
    <title>Email Validation</title>
</head>
<body>
<h2>Email Validation & Domain Extraction</h2>
<form method="post">
    <label>Enter Email Address:</label><br>
    <input type="email" name="email" required>
```

```
    <input type="submit" value="Validate">
</form>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    echo "<h3>Result:</h3>";
    echo "<p>$validationResult</p>";
    if (!empty($domainName)) {
        echo "<p>Domain Name: <b>$domainName</b></p>";
    }
}
?>
</body>
</html>
```

OUTPUT:

84. Implement a PHP program that creates sessions, sets values in sessions, and removes data from the sessions.

```
<?php
session_start();
if (isset($_GET['action']) && $_GET['action'] == 'set') {
    $_SESSION['username'] = "Dhanuja";
    $_SESSION['email'] = "dhanu@example.com";
}
if (isset($_GET['action']) && $_GET['action'] == 'remove_username') {
    unset($_SESSION['username']);
}
if (isset($_GET['action']) && $_GET['action'] == 'destroy') {
    session_unset();
    session_destroy();
```

```
}
?>
<html>
<head>
    <title>PHP Session Example</title>
</head>
<body>
<h2>Session Handling Example</h2>
<a href="?action=set">Set Session Values</a> |
<a href="?action=remove_username">Remove 'username'</a> |
<a href="?action=destroy">Destroy All Sessions</a>
<hr>
<h3>Current Session Data:</h3>
<pre>
<?php
if (!empty($_SESSION)) {
    print_r($_SESSION);
} else {
    echo "No session data found.";
}
?>
</pre>
</body>
</html>
```

OUTPUT:

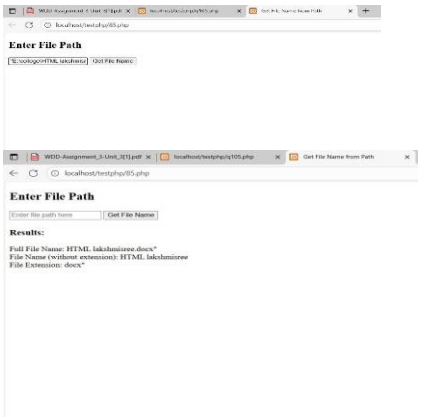
85. List the steps to get file name from a path in PHP.

```
<html>
<head>
    <title>Get File Name from Path</title>
</head>
<body>
<h2>Enter File Path</h2>
<form method="post">
    <input type="text" name="filepath" placeholder="Enter file path here" required>
    <input type="submit" value="Get File Name">
</form>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $path = $_POST['filepath'];
    $fullName = basename($path);
    $info = pathinfo($path);
    $nameWithoutExt = $info['filename'];
    $extension = isset($info['extension']) ? $info['extension'] : 'No extension';
    echo "<h3>Results:</h3>";
    echo "Full File Name: " . $fullName . "<br>";
    echo "File Name (without extension): " . $nameWithoutExt . "<br>";
    echo "File Extension: " . $extension . "<br>";
}
?>
```

</body>

</html>

OUTPUT:

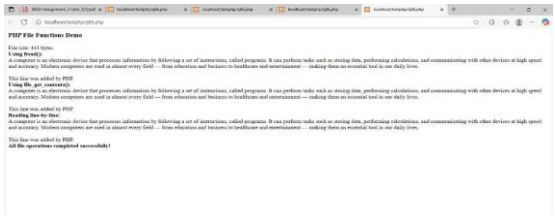


86. PHP File functions with example program.

```
<?php
echo "<h3>PHP File Functions </h3>";
$file = fopen("test.txt", "r") or die("Unable to open test.txt!");
$size = filesize("test.txt");
echo "File size: $size bytes<br>";
echo "<b>Using fread():</b><br>";
echo nl2br(fread($file, $size)) . "<br>";
fclose($file);
echo "<b>Using file_get_contents():</b><br>";
echo nl2br(file_get_contents("test.txt")) . "<br>";
$file = fopen("test.txt", "r");
echo "<b>Reading line-by-line:</b><br>";
while (!feof($file)) {
    echo nl2br(fgets($file));
}
fclose($file);
file_put_contents("test.txt", "\nThis line is appended by PHP.", FILE_APPEND);
$newFile = fopen("newfile.txt", "w");
fwrite($newFile, "This is a new file created with fwrite().\n");
```

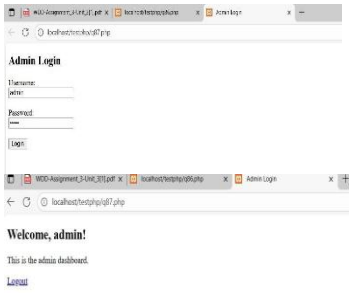
```
fclose($newFile);

copy("test.txt", "copy.txt");

rename("copy.txt", "renamed.txt");

unlink("renamed.txt");

unlink("newfile.txt");

echo "<br><b>All file operations completed successfully!</b>";

?>
```

OUTPUT:



87.

OUTPUT:

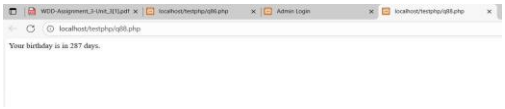


88. Generate a simple PHP 'birthday countdown' script, the script will count the number of days between current day and birthday.

```
<?php

$birthMonth = 05;

$birthDay = 29;

$today = new DateTime();

$thisYear = (int)$today->format('Y');

$birthdayThisYear = DateTime::createFromFormat('Y-n-j', "$thisYear-$birthMonth-
$birthDay");

if ($birthdayThisYear < $today) {

    $birthdayThisYear->modify('+1 year');
```

```
}
$interval = $today->diff($birthdayThisYear);
$daysUntil = $interval->days;
if ($daysUntil === 0) {
    echo "Happy Birthday! ";
} elseif ($daysUntil === 1) {
    echo "It's tomorrow! Just 1 day to go.";
} else {
    echo "Your birthday is in $daysUntil days.";
}
?>
```

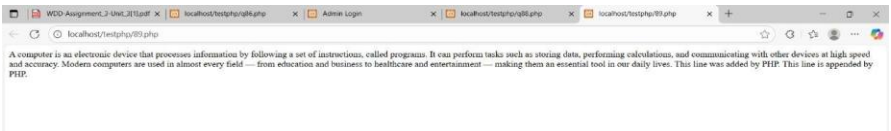
OUTPUT:



89. Construct a PHP program to read a file using file operation.

```
<?php
$filename = "test.txt";
if (file_exists($filename)) {
    $file = fopen($filename, "r");
    $content = fread($file, filesize($filename));
    echo $content;
    fclose($file);
} else {
    echo "File does not exist.";
}
?>
```

OUTPUT:



90. Write a PHP program to open a text file and print all the data in it.

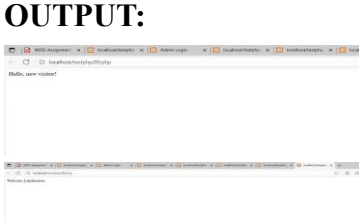
```
<?php
$filename = "test.txt";
if (file_exists($filename)) {
    $file = fopen($filename, "r") or die("Unable to open file!");
    while (!feof($file)) {
        echo fgets($file) . "<br>"; // Read line by line
    }
    fclose($file);
} else {
    echo "File not found!";
}
?>
```

OUTPUT:

92. Apply the various steps involved to get cookie value using server-side scripting.

```
<?php
setcookie("username", "Lakshmisree", time() + 60, "/");
if (isset($_COOKIE["username"])) {
    echo "Welcome, " . $_COOKIE["username"];
} else {
    echo "Hello, new visitor!";
}
?>
```

OUTPUT:



93. Write a PHP program that keeps track of how many times a visitor has loaded the page.

```
<?php
```

```
session_start();
if (isset($_SESSION['visit_count'])) {
   $_SESSION['visit_count']++;
} else {
   $_SESSION['visit_count'] = 1;
}
echo "You have visited this page " . $_SESSION['visit_count'] . " times.";
?>
```

OUTPUT:

94. Evaluate the different file handling modes available in PHP with appropriate examples.

```
<?php
$file = "test.txt";
$fp = fopen($file, "r");
echo "<b>Reading file (r):</b><br>";
echo nl2br(fread($fp, filesize($file))) . "<br><br>";
fclose($fp);
$fp = fopen($file, "r+");
fwrite($fp, "Start of file changed.\n");
fclose($fp);
$fp = fopen($file, "w");
fwrite($fp, "This text overwrites the file.\n");
fclose($fp);
$fp = fopen($file, "w+");
fwrite($fp, "Overwritten again, but can also read.\n");
rewind($fp);
echo "<b>w+ content:</b><br>" . nl2br(fread($fp, filesize($file))) . "<br><br>";
fclose($fp);
```

```
$fp = fopen($file, "a");
fwrite($fp, "Appended line (a mode).\n");
fclose($fp);
$fp = fopen($file, "a+");
fwrite($fp, "Appended again with a+ mode.\n");
fclose($fp);
echo "<b>File size:</b> " . filesize($file) . " bytes<br><br>";
copy($file, "copy_test.txt");
echo "File copied to copy_test.txt<br>";
rename("copy_test.txt", "renamed_test.txt");
echo "copy_test.txt renamed to renamed_test.txt<br>";
unlink("renamed_test.txt");
echo "renamed_test.txt deleted<br>";
?>
```

OUTPUT:

95. Discuss the purpose and functionality of PHP sessions and outline their potential application in

maintaining a user's shopping cart state across multiple pages.

PRODUCTS.PHP

```
<?php
session_start();
$products = [
    1 => "Laptop",
    2 => "Smartphone",
    3 => "Headphones"
];
```

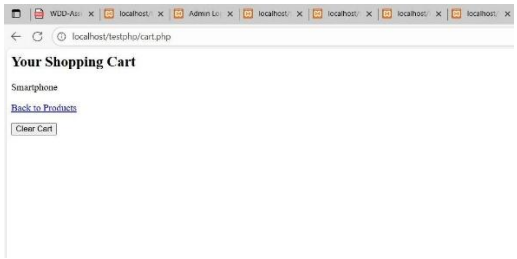
```
if (isset($_GET['add'])) {
    $id = $_GET['add'];
    $_SESSION['cart'][] = $products[$id];
    echo "<p style='color:green;'>Item added to cart!</p>";
}
?>
<h2>Product List</h2>
<ul>
<?php foreach ($products as $id => $name): ?>
    <li>
        <?php echo $name; ?>
        <a href="?add=<?php echo $id; ?>">Add to Cart</a>
    </li>
<?php endforeach; ?>
</ul>
<p><a href="cart.php">View Cart</a></p>
```

CART.PHP

```
<?php
session_start();
?>
<h2>Your Shopping Cart</h2>
<?php
if (!empty($_SESSION['cart'])) {
    foreach ($_SESSION['cart'] as $item) {
        echo $item . "<br>";
    }
} else {
    echo "<p>Your cart is empty.</p>";
}
?>
```

```
<p><a href="products.php">Back to Products</a></p>
<form method="post">
    <input type="submit" name="clear" value="Clear Cart">
</form>
<?php
if (isset($_POST['clear'])) {
    unset($_SESSION['cart']);
    header("Location: cart.php");
}
?>
```

OUTPUT:



96. How to register a variable in a PHP session? Give an example.

```
<?php
session_start();
if (!isset($_SESSION['username'])) {
    $_SESSION['username'] = "Lakshmisree";
    $_SESSION['role'] = "Admin";
    echo "Session variables have been set.<br>";
    echo "Refresh the page to see them in action.";
} else {
    echo "Welcome, " . $_SESSION['username'] . "<br>";
    echo "Your role is: " . $_SESSION['role'];
```

```
}
?>
```

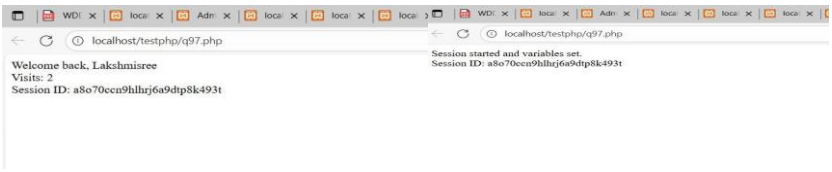
OUTPUT:

97. Discover the various session functions of PHP. Explain its behavior.

```
<?php
session_start();
if (!isset($_SESSION['name'])) {
    $_SESSION['name'] = "Lakshmisree";
    $_SESSION['count'] = 1;
    echo "Session started and variables set.<br>";
} else {
    $_SESSION['count']++;
    echo "Welcome back, " . $_SESSION['name'] . "<br>";
    echo "Visits: " . $_SESSION['count'] . "<br>";
}
echo "Session ID: " . session_id() . "<br>";
if ($_SESSION['count'] == 3) {
    session_regenerate_id(true);
    echo "Session ID regenerated.<br>";
}
if ($_SESSION['count'] == 5) {
    session_unset();
    echo "Session variables cleared.<br>";
}
if ($_SESSION['count'] == 6) {
    session_destroy();
    echo "Session destroyed.<br>";
}
```

?>

OUTPUT:



99. Build a PHP program to apply the following tasks using session.

(a) Initiate a session (or pick up an existing one).

(b) Check for the existence of a pre-existing entry in $_SESSION. If not present, assume that the session is new.

(c) Increment a counter that tracks how many times that the user has visited this page.

(d) Store the incremented counter back in $_SESSION.

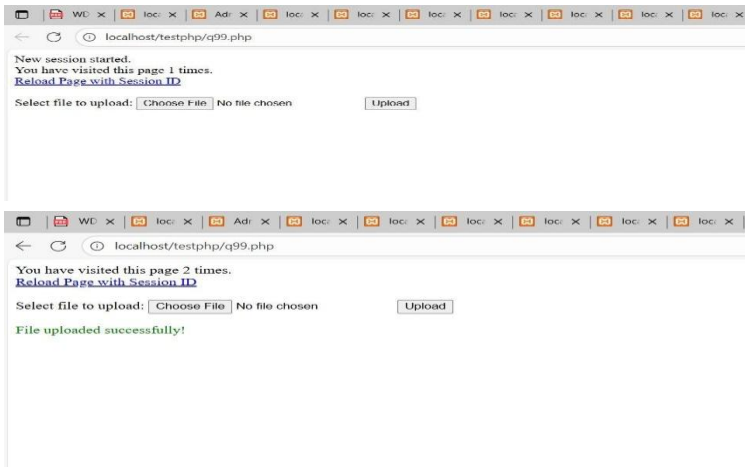
(e) Provide a link back to the page itself, embedding the session ID as an argument if it is found.

(f) Using PHP, construct a program to restrict the user from uploading the same file again and again. If the same file already exists in that folder, display an appropriate error message.

```
<?php
session_start();
if (!isset($_SESSION['counter'])) {
    $_SESSION['counter'] = 0;
    echo "New session started.<br>";
}
$_SESSION['counter']++;
echo "You have visited this page " . $_SESSION['counter'] . " times.<br>";
echo "<a href='" . $_SERVER['PHP_SELF'] . "?PHPSESSID=" . session_id() . "'>Reload Page with Session ID</a><br><br>";
?>
<form method="post" enctype="multipart/form-data">
    <label>Select file to upload:</label>
    <input type="file" name="myfile">
    <input type="submit" value="Upload">
```

```
</form>
<?php
if ($_SERVER['REQUEST_METHOD'] === 'POST' && isset($_FILES['myfile'])) {
    $uploadDir = "uploads/";
    if (!is_dir($uploadDir)) {
        mkdir($uploadDir); // create uploads folder if not exists
    }
    $targetFile = $uploadDir . basename($_FILES['myfile']['name']);
    if (file_exists($targetFile)) {
        echo "<p style='color:red;'>Error: This file already exists. Please choose a different file.</p>";
    } else {
        if (move_uploaded_file($_FILES['myfile']['tmp_name'], $targetFile)) {
            echo "<p style='color:green;'>File uploaded successfully!</p>";
        } else {
            echo "<p style='color:red;'>Error uploading file.</p>";
        }
    }
}
?>
```

OUTPUT:



102. Develop a PHP program to use session variables and start a session.

```
<?php
session_start();
$_SESSION["username"] = "Lakshmisree";
$_SESSION["email"] = "lakshmisree@example.com";
echo "Username: " . $_SESSION["username"] . "<br>";
echo "Email: " . $_SESSION["email"] . "<br>";
if (session_status() == PHP_SESSION_ACTIVE) {
    echo "Session is active!";
}
?>
```

OUTPUT:

103. Create a very simple pageview counter by using 'isset' to check if the pageview variable has

already been created.

```
<?php
session_start(); // Start the session
if (isset($_SESSION['pageviews'])) {
    $_SESSION['pageviews']++; // Increment counter
} else {
    $_SESSION['pageviews'] = 1; // First visit
}
echo "You have visited this page " . $_SESSION['pageviews'] . " times.";
?>
```

OUTPUT:

104. Formulate a PHP program to open a text file and print the nth line in the text file if then'th line

does not exist print 'no data'.

```
<?php
$filename = "test.txt"; // Your text file
$n = 3; // The line number to fetch (example: 3rd line)
if (file_exists($filename)) {
    $file = fopen($filename, "r");
    $currentLine = 1;
    $found = false;
    while (!feof($file)) {
        $line = fgets($file)
        if ($currentLine == $n) {
            echo "Line $n: " . htmlspecialchars($line);
            $found = true;
            break;
        }
        $currentLine++;
    }
   fclose($file);
    if (!$found) {
        echo "no data";
    }
} else {
    echo "File not found!";
}
?>
```

OUTPUT:

105. Write a PHP function to get the start and end date of a week (by week number) of a particular

year. Sample week and year: 12, 2014.

```
<?php
function getStartAndEndDate($week, $year) {
    $startDate = new DateTime();
    $startDate->setISODate($year, $week);
    $endDate = clone $startDate;
    $endDate->modify('+6 days');
return array(
        'start' => $startDate->format('Y-m-d'),
        'end'   => $endDate->format('Y-m-d')
    );
}
$week = 12;
$year = 2014;
$result = getStartAndEndDate($week, $year);
echo "Week $week of $year starts on: " . $result['start'] . "<br>";
echo "Week $week of $year ends on: " . $result['end'];
?>
```

OUTPUT: