

# Scripting Language Lab Report - BCA 4th Semester

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## Abstract:

This report documents the practical exercises and experiments conducted in the Scripting Language course for the 4th semester of the Bachelor of Computer Applications (BCA) program. It provides a quick key concepts explored through semester HTML, JavaScript, and PHP .

## Disclaimer:

The information presented in this report is intended for educational purposes only. While efforts have been made to ensure accuracy, any practical implementation should be validated by qualified professionals.

## Prerequisite Knowledge:

- Basic Programming concepts
- Scripting languages such as JavaScript, and PHP.

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## Section 1 : JavaScript

### lab 1

Q : WAP to display text in document

html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
    <script src="script.js" defer></script>
  </head>
  <body>
    <p id="my-text"></p>
  </body>
</html>
```

js

```
let myText = document.getElementById("my-text");
myText.textContent = "Hello, World! I am doing scripting lab report.";
```

## lab 2

Q : WAP to update text content of div element

html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
    <script src="script.js" defer></script>
  </head>
  <body>
    <p id="my-text">My Name is</p>
  </body>
</html>
```

js

```
let myText = document.getElementById("my-text");
//get text insdie the my-text and concat with the new text
myText.textContent = myText.textContent + " Rayyan Balami";
```

## lab 3

Q : WAP to increment count on button click

html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
    <script src="script.js" defer></script>
  </head>
  <body>
    <input type="number" name="num-value" id="num-value" value="0" disabled />
    <button id="increment-btn">Increment</button>
  </body>
</html>
```

js

```
let numValue = document.getElementById('num-value');
let incrementBtn = document.getElementById('increment-btn');

incrementBtn.onclick = function() {
  let numValue.value = parseInt(let numValue.value) + 1;
}
```

## lab 4

Q : WAP to display current date-time on button click

html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
    <script src="script.js" defer></script>
  </head>
  <body>
    <p id="date-time"></p>
    <button onclick="showDateTime()">Show Date</button>
  </body>
</html>
```

js

```
let dateTimeElement = document.getElementById("date-time");

function showDateTime() {
  dateTimeElement.textContent = new Date();
}
```

## lab 5

Q : WAP to take number input from user and display corresponding day name

html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
    <script src="script.js" defer></script>
  </head>
  <body>
    <!-- number in put between 1 to 7 -->
    <input type="number" min="1" max="7" id="day-num" />
    <button onclick="getDay()">Get Day</button>
    <p id="day-name"></p>
  </body>
</html>
```

js

```
let dayNum = document.getElementById("day-num");
let dayName = document.getElementById("day-name");
const days = [
  "Sunday",
  "Monday",
  "Tuesday",
  "Wednesday",
  "Thursday",
  "Friday",
```

```

    "Saturday",
];

function getDay() {
    if (dayNum.value >= 1 && dayNum.value <= 7) {
        dayName.textContent = days[dayNum.value - 1];
    }
}

```

## lab 6

Q : WAP to change case of user input string

html

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
    <script src="script.js" defer></script>
  </head>
  <body>
    <!-- case conversion -->
    <input
      type="text"
      id="input-string"
      placeholder="Enter a string"
    /><br /><br />
    <button onclick="convertToUpperCase()">Upper Case</button>
    <button onclick="convertToLowerCase()">Lower Case</button><br /><br />
    <input type="text" id="output-string" placeholder="Output" />
  </body>
</html>

```

js

```

let inputString = document.getElementById("input-string");
let outputString = document.getElementById("output-string");

function convertToUpperCase() {
    outputString.value = inputString.value.toUpperCase();
}

function convertToLowerCase() {
    outputString.value = inputString.value.toLowerCase();
}

```

## lab 7

Q : WAP to generate random number between user given range

html

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
    <script src="script.js" defer></script>
  </head>
  <body>
    <!-- random number generator -->
    <input type="number" id="min-range" placeholder="Min Range" />
    <input type="number" id="max-range" placeholder="Max Range" />
    <button onclick="generateRandomNumber()">Generate</button>
    <input type="number" id="output-num" placeholder="Random Number" disabled />
  </body>
</html>

```

js

```

let outputNum = document.getElementById("output-num");

function generateRandomNumber() {
  let minRange = parseInt(document.getElementById("min-range").value);
  let maxRange = parseInt(document.getElementById("max-range").value);

  let randomNum =
    Math.floor(Math.random() * (maxRange - minRange + 1)) + minRange;
  outputNum.value = randomNum;
}

```

## lab 8

Q : WAP to demonstrate setTimeout() to display text after 2 seconds

html

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
    <script src="script.js" defer></script>
  </head>
  <body>
    <!-- 2 sec text -->
    <p>New text will appear !!! In 2 sec ...</p>
    <p id="text"></p>
  </body>
</html>

```

js

```

let text = document.getElementById("text");
//set timeout to display a text afetr 2 secnd
setTimeout(() => {

```

```
text.innerHTML = "I appeared after 2 seconds. WOW!";  
}, 2000);
```

## lab 9

Q : WAP to client side form validation

html

```
<!DOCTYPE html>  
<html lang="en">  
  <head>  
    <title>Document</title>  
    <script src="script.js" defer></script>  
  </head>  
  <body>  
    <!-- client side form validation -->  
    <form id="registerForm">  
      <label for="username">Username:</label><br />  
      <input type="text" id="username" name="username" /><br />  
      <label for="email">Email:</label><br />  
      <input type="text" id="email" name="email" /><br />  
      <label for="password">Password:</label><br />  
      <input type="password" id="password" name="password" /><br />  
      <input type="submit" value="Submit" />  
    </form>  
    <div id="error"></div>  
  </body>  
</html>
```

js

```
document  
  .getElementById("registerForm")  
  .addEventListener("submit", function (event) {  
    event.preventDefault();  
  
    var username = document.getElementById("username").value;  
    var email = document.getElementById("email").value;  
    var password = document.getElementById("password").value;  
    var errorDiv = document.getElementById("error");  
  
    errorDiv.innerHTML = "";  
  
    if (!username || !email || !password) {  
      errorDiv.innerHTML = "All fields are required.";   
      return;  
    }  
  
    var emailRegex = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;  
    if (!emailRegex.test(email)) {  
      errorDiv.innerHTML = "Please enter a valid email.";   
      return;  
    }  
  });
```

```

    }

    if (password.length < 8) {
        errorDiv.innerHTML = "Password must be at least 8 characters long.";
        return;
    }

    // If all validations pass, you can submit the form here.
    console.log("Form submitted");
});

```

## lab 10

Q : WAP to email regex validation

html

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
    <script src="script.js" defer></script>
  </head>
  <body>
    <!-- email regex validation -->
    <input type="text" id="email-input" placeholder="Enter your email" />
    <button onclick="validateEmail()">Validate</button>
    <p id="validation-result"></p>
  </body>
</html>

```

js

```

function validateEmail() {
    const emailInput = document.getElementById("email-input").value;
    const emailRegex = /^[a-zA-Z0-9._-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,4}$/;

    if (emailRegex.test(emailInput)) {
        document.getElementById("validation-result").textContent =
            "Valid email address.";
    } else {
        document.getElementById("validation-result").textContent =
            "Invalid email address.";
    }
}

```

## lab 11

Q : WAP to demonstrate Confirm popup using dialogue box

html

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
    <script src="script.js" defer></script>
  </head>
  <body>
    <!-- >Confirm Box Example -->
    <p id="confirm-result"></p>
  </body>
</html>

```

js

```

const result = confirm("Are you sure you want to proceed?");
if (result) {
  document.getElementById("confirm-result").textContent = "User clicked OK.";
} else {
  document.getElementById("confirm-result").textContent =
    "User clicked Cancel.";
}

```

## lab 12

Q : WAP to demonstrate array and foreach loop

js

```

const fruits = ["apple", "orange", "banana", "grapes", "mango"];

// using for loop
let list = "";
fruits.forEach((fruit) => {
  list += fruit + ",";
});

alert(list);

```

## lab 13

Q : WAP to demonstrate prompt popup using dialogue box

js

```

$users = ["rayyan", "elon", "iron man"];

$username = prompt("Enter your name");

if ($users.includes($username)) {
  alert("Welcome " + $username);
} else {

```



```
    alert("Sorry, you are not valid user.");
}
```

## lab 14

Q : WAP to demonstrate cookie in js. create,update,delete,display cookie

html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
    <script src="script.js" defer></script>
  </head>
  <body>
    <p id="result"></p>
  </body>
</html>
```

js

```
//wap to store cookie
//wap to read cookie
//wap to delete cookie
function setCokkie(name, value, days) {
  var date = new Date();
  date.setTime(date.getTime() + days * 24 * 60 * 60 * 1000);
  var expires = "expires=" + date.toUTCString();
  document.cookie = name + "=" + value + ";" + expires + ";path=/";
}

function getCookie(name) {
  var cookies = document.cookie.split(";");
  for (var i = 0; i < cookies.length; i++) {
    var cookie = cookies[i].trim();
    if (cookie.startsWith(name + "=")) {
      return cookie.substring(name.length + 1);
    }
  }
  return null;
}

function deleteCookie(name) {
  document.cookie = name + "=; expires=Thu, 01 Jan 1970 00:00:00 UTC; path=/";
}

//set cookie
setCokkie("name", "rayyan balami", 30);
setCokkie("age", 20, 30);

//show cookie in web page without selecting any html element
let result = document.getElementById("result");
```

```

result.innerHTML = "cookie set: " + document.cookie;

//get cookie
result.innerHTML += "<br>name: " + getCookie("name");
result.innerHTML += "<br>age: " + getCookie("age");

//delete cookie
deleteCookie("name");
deleteCookie("age");

result.innerHTML += "<br>cookie deleted";

```

## lab 16

**Q : Define Event handling in js. Demonstrate any three event**

Event handling in JavaScript involves responding to user actions or system events within a web page. Events can be triggered by various interactions, such as clicking a button, hovering over an element, submitting a form, or resizing the browser window. To handle events, JavaScript provides event listeners or event handlers, which are functions that are executed when a specific event occurs.

Here's a brief demonstration of three common events and how to handle them:

html

```

<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
    <script src="script.js" defer></script>
    <style>
      div {
        width: 100px;
        height: 100px;
        border: 1px solid black;
        margin: 1rem 0;
        display: grid;
        place-items: center;
      }
    </style>
  </head>
  <body>
    <button>Click Me</button>
    <div>hover me</div>
    <input type="text" placeholder="search ctrl + k" />
  </body>
</html>

```

js

```

//any 3 events examle js

```

```
// 1. Event: click
// Description: The click event occurs when an element is clicked.
// Example: When a user clicks on a button, change the text of the button to
'ckicked'.

let button = document.querySelector("button");
button.addEventListener("click", function () {
    button.textContent = "You Clicked Me !";
});

// 2. Event: mouseover
// Description: The mouseover event occurs when an element is moused over.
// Example: When a user div is moused over, change the border radius to 50% of top
left and bottom right.

let div = document.querySelector("div");
div.addEventListener("mouseover", function () {
    //top left and bottom right
    div.style.borderRadius = "50% 0";

    //top right and bottom left
    //div.style.borderRadius = '0 50%';
});

// 3. Event: keydown
// Description: The keydown event occurs when a key is pressed down.
// Example: When a user presses the 'ctrl + k' key, add focus to the input field.

let input = document.querySelector("input");

document.addEventListener("keydown", function (event) {
    if (event.ctrlKey && event.key === "k") {
        input.focus();
    }
});
```

## Section 2 : PHP

### lab 1

**Q : WAP to demonstrate if-else statement in PHP**

php

```
<?php

$balance = 5000;

function withdraw($amount) {
    global $balance;
    if ($amount > $balance) {
```

```

        echo "Insufficient funds";
    } else {
        $balance = $balance - $amount;
        echo "Withdrawal successful. <br> New balance is Rs " . $balance;
    }
}

withdraw(3500);

?>

```

## lab 2

Q : WAP to demonstrate switch statement in php

php

```

<?php
$language = "PHP";

switch($language) {
    case "PHP":
        echo "Language is PHP";
        break;
    case "Java":
        echo "Language is Java";
        break;
    case "C#":
        echo "Language is C#";
        break;
    default:
        echo "Language is not listed";
}

?>

```

## lab 3

Q : WAP to demonstrate different loop statements in PHP

php

```

<?php

//for loop
echo "for loop :-<br>";
for($i=0; $i<5; $i++){
    echo "iteration $i <br>";
}

//while loop
echo "<br>while loop :- <br>";
$j = 0;

```

```

while($j<5){
    echo "iteration $j <br>";
    $j++;
}

//do while loop
echo "<br>do while loop :- <br>";
$k = 0;
do{
    echo "iteration $k <br>";
    $k++;
}while($k<5);

//foreach loop
echo "<br>foreach loop :- <br>";
$colors = array("red", "green", "blue", "yellow");
foreach($colors as $value){
    echo "$value <br>";
}

?>

```

## lab 4

Q : WAP to demonstrate continue and break statements in PHP

php

```

<?php

for ($i = 0; $i < 10; $i++) {
    if ($i == 3) {
        continue;
    }
    if ($i == 7) {
        break;
    }
    echo $i . " <br>";
}

?>

```

## lab 5

Q : WAP to demonstrate calculation of the area of a circle using a function in PHP

php

```

<?php

function circleArea($radius){
    $area = 3.14 * $radius * $radius;
    return $area;
}

```

```

circleArea(5);
echo "When the radius is 5,<br> the area of the circle is " . circleArea(5) . "
cm<sup>2</sup><br>";
?>

```

## lab 6

Q : WAP to birthday countdown in PHP using day-time operation

php

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Birthday Countdown</title>
</head>
<body>
    <h2>Birthday Countdown</h2>
    <h4>Today : <?php echo date('Y-m-d'); ?></h4>
    <form method="post">
        <label for="birthday">Enter your birthday:</label>
        <input type="date" id="birthday" name="birthday" required>
        <button type="submit">Calculate Countdown</button>
    </form>

    <?php
    if ($_SERVER["REQUEST_METHOD"] == "POST") {
        $birthday = $_POST['birthday'];
        $currentDate = date('Y-m-d');

        // Calculate the difference in days between the current date and the birthday
        $diff = (strtotime($birthday) - strtotime($currentDate)) / (60 * 60 * 24);
        $diff = ceil($diff); // Round up to the nearest whole number

        if ($diff < 0) {
            echo "<p>Your birthday is in the past!</p>";
        } elseif ($diff == 0) {
            echo "<p>Happy birthday!</p>";
        } else {
            echo "<p>Your birthday is in $diff days!</p>";
        }
    }
    ?>
</body>
</html>

```

## lab 7

Q : WAP to demonstrate different http method [ POST, GET ] in PHP

html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Document</title>
  </head>
  <body>
    <!-- post -->
    <form action="backend.php" method="post">
      <input type="text" name="userInput" placeholder="Enter Input" />
      <button type="submit" name="submit">POST</button>
    </form>
    <!-- get -->
    <a href="backend.php?userInput=RayyanHero">GET</a>
  </body>
</html>
```

php

```
<?php

//post
if($_SERVER["REQUEST_METHOD"] == "POST") {
    $userInput = $_POST['userInput'];
    echo "You entered: $userInput from POST";
}

//get
if($_SERVER["REQUEST_METHOD"] == "GET") {
    $userInput = $_GET['userInput'];
    echo "Parameter from GET: $userInput";
}

?>
```

## lab 8

Q : WAP to read/write file and display its content in PHP

php

```
<?php

//WAP to read file and display its content in PHP

$fileName = "file.txt";
if(file_exists($fileName)) {
    $reader = fopen($fileName, "r");
    $writer = fopen($fileName, "w");
    if(!$reader || !$writer) {
        echo "Error opening file";
        die();
    }
}
```

```

    }

    //write file
    fwrite($writer, "Hello World this is wrttien from PHP");

    //read file
    echo fread($reader, filesize($fileName));
    fclose($reader);
    fclose($writer);
} else {
    echo "File does not exist";
}

?>

```

## lab 9

Q : WAP to demonstrate views count useing session in PHP

php

```

<?php

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

echo "Views = ".$_SESSION['views'];

?>

```

## lab 10

Q : WAP to demonstrate cookie [ set, display, delete ] in PHP

php

```

<?php

// Set cookie
$key = "user";
$value = "John";
$expire = time() + (60*60*24*7); // 7 days

setcookie($key, $value, $expire, "/");

// Get cookie

```



```

if(isset($_COOKIE['user'])) {
    echo "Cookie is set: " . $_COOKIE['user'];
} else {
    echo "Cookie is not set";
}

// Delete cookie if it's set
if(isset($_COOKIE['user'])) {
    setcookie($key, "", time() - 3600);
    echo "<br>Cookie deleted";
}

?>

```

## lab 11

Q : WAP to Send email using mail() function in PHP

php

```

<?php

// different ways to link files in PHP
// include
// description: include will include the file and if the file is not found, it will
throw a warning and continue the execution of the script

echo "include 'file.txt';<br><br>";

echo "1. include 'file.txt';<br>";
include 'file.txt';

// include_once
// description: include_once will include the file and if the file is not found, it
will throw a warning and continue the execution of the script. It will also check if
the file has already been included and if so, it will not include it again.

echo "<br><br>2. include_once 'file.txt';<br>";
include_once 'file.txt';

// require
// description: require will include the file and if the file is not found, it will
throw a fatal error and stop the execution of the script
echo "<br><br>3. require 'file.txt';<br>";
require 'file.txt';

// require_once
// description: require_once will include the file and if the file is not found, it
will throw a fatal error and stop the execution of the script. It will also check if
the file has already been included and if so, it will not include it again.
echo "<br><br>4. require_once 'file.txt';<br>";

```

```
require_once 'file.txt';  
?>
```

## lab 12

Q : WAP to demonstrate exception handling (try-catch) in PHP

php

```
<?php  
  
try {  
    // Code that may throw exception  
    $numerator = 10;  
    $denominator = 0;  
  
    if($denominator == 0) {  
        throw new Exception("Division by zero");  
    }  
  
    $result = $numerator / $denominator;  
    echo "Division result: " . $result;  
} catch(Exception $e) {  
    // Code to handle exception  
    echo "Exception caught: " . $e->getMessage();  
} finally {  
    // Optional block  
    echo "<br>Finally block is always executed";  
}  
  
?>
```

## lab 13

Q : WAP to Send email using mail() function in PHP

php

```
<?php  
  
$emails = array("visionrayyan60517@gmail.com", "balamirayyan@gmail.com");  
$subject = "Test Email";  
$message = "This is a test email from PHP";  
$from = "admin@gmail.com";  
$headers = "From: $from";  
  
foreach($emails as $email) {  
    $success = mail($email, $subject, $message, $headers);  
    if($success) {  
        echo "Email sent to $email<br>";  
    } else {  
        echo "Email failed to send to $email<br>";  
    }  
}
```

```
}  
  
?>
```

## Section 3 : OOP in PHP

### lab 1

Q : WAP to create class and object in php

php

```
<?php  
  
class MyClass {  
    public $prop1 = "I'm a class property!";  
  
    public function setProperty($newval) {  
        $this->prop1 = $newval;  
    }  
  
    public function getProperty() {  
        return $this->prop1 . "<br />";  
    }  
}  
  
$obj = new MyClass;  
echo $obj->getProperty(); // Get the property value  
$obj->setProperty("I'm a new property value!"); // Set a new one  
echo $obj->getProperty(); // Read it out again to show the change  
?>
```

### lab 2

Q : WAP to demonstrate constructor and destructor in PHP

php

```
<?php  
  
class MyClass {  
    public function __construct() {  
        echo 'The class "', __CLASS__, ' was initiated!<br />';  
    }  
    public function __destruct() {  
        echo 'The class "', __CLASS__, ' was destroyed.<br />';  
    }  
    public function SayHello() {  
        echo 'Hello, World!<br />';  
    }  
}
```

```
$obj = new MyClass;
$obj->SayHello();

//__CLASS__ gives name of current class

?>
```

## lab 3

Q : WAP to find the area of the triangle using OOP in PHP

php

```
<?php

class Triangle {
    public $base;
    public $height;
    public $area;

    public function __construct($base, $height) {
        $this->base = $base;
        $this->height = $height;
    }

    public function calculateArea() {
        $this->area = 0.5 * $this->base * $this->height;
    }

    public function getArea() {
        return $this->area;
    }
}

$triangle = new Triangle(10, 20);
$triangle->calculateArea();

echo "Using OOP in PHP<br>";

echo "Area of the triangle is: " . $triangle->getArea() . " cm<sup>2</sup>";

?>
```

## lab 4

Q : WAP to demonstrate Custom exception handling in PHP

php

```
<?php

class MyException extends Exception {
```

```

    public function errorMessage() {
        //error message
        $errorMsg = 'Error on line '.$this->getLine().' in '.$this->getFile()
        .': <b>'.$this->getMessage().</b>';
        return $errorMsg;
    }
}

//trigger exception
try {
    throw new MyException('This is an custom exception');
}
catch(MyException $e) {
    echo $e->errorMessage();
}
finally {
    echo "<br>Finally block is always executed";
}

?>

```

## lab 5

Q : WAP to demonstrate single, multi, hierarchical level inheritance in PHP

php

```

<?php

class Animal {
    function sound() {
        echo "Animal makes a sound";
    }
}

class Cat extends Animal {
    function sound() {
        echo "Cat meows";
    }
}

class Dog extends Animal {
    function sound() {
        echo "Dog barks";
    }
}

class GermanShepherd extends Dog {
    function sound() {
        echo "German Shepherd barks";
    }
}

```

```

$animal = new Animal();
$cat = new Cat();
$dog = new Dog();
$germanShepherd = new GermanShepherd();

echo "single level inheritance in PHP : <br><br>";

$animal->sound();
echo "<br>";
$dog->sound();

echo "<hr><br>Multi level inheritance in PHP : <br><br>";
$animal->sound();
echo "<br>";
$dog->sound();
echo "<br>";
$germanShepherd->sound();

echo "<hr><br>Hierarchical inheritance in PHP : <br><br>";
$animal->sound();
echo "<br>";
$cat->sound();
echo "<br>";
$dog->sound();

?>

```

## lab 6

Q : WAP to demonstrate multiple inheritance using interface in PHP

php

```

<?php

// Demonstrate multiple inheritance in PHP

interface Smile {
    public function smile();
}

interface Eat {
    public function eat();
}

class Person implements Smile, Eat {
    public function smile() { //overriding
        echo "Person is smiling";
    }
    public function eat() { //overriding

```

```

        echo "Person is eating";
    }
}

echo "Multiple inheritance in PHP :<br><br>";
$person = new Person();
$person->smile();
echo "<br>";
$person->eat();
?>

```

## lab 7

Q : WAP to demonstrate use of this,self,parent keywords in PHP

php

```

<?php

class SuperMarket {
    public $name;
    public $location;

    public $owner;

    public function __construct($name, $location, $owner) {
        $this->name = $name;
        $this->location = $location;
        $this->owner = $owner;
    }

    public function display() {
        echo "Name: $this->name, Location: $this->location, Owner: $this->owner";
    }
}

class BalamiStore extends SuperMarket {
    public const OWNER = "Balami";

    public function __construct($name, $location) {
        parent::__construct($name, $location, self::OWNER);
    }
}

$balamiStore = new BalamiStore("Balami Store", "Everestpur");
$balamiStore->display();

?>

```

## lab 8

Q : WAP to demonstrate method overriding in PHP

php

```
<?php

class Swim {
    public function swim() {
        return "Swimming";
    }
}

class Human extends Swim {
    public function swim() {
        return "Human is swimming !!";
    }
}

$swim = new Swim();
echo "Swim class => " . $swim->swim() . "<br>";

$human = new Human();
echo "Human class => " . $human->swim() . "<br>";

?>
```

## lab 9

Q : WAP to demonstrate encapsulation in PHP

php

```
<?php

class Message {
    private $message;

    public function getMessage() {
        return $this->message;
    }

    public function setMessage($newMessage) {
        $this->message = $newMessage;
    }
}

$message = new Message();
$message->setMessage("Hello, World!");
echo $message->getMessage();

?>
```



## lab 10

Q : WAP to demonstrate static in PHP

php

```
<?php

class MyClass {
    public static $name;
    public static function getName() {
        return self::$name;
    }
}

echo "Static in OOP in PHP: <br><br>";
MyClass::$name = "Rayyan Hero";
echo "Name: " . MyClass::getName();
?>
```

## Section 4 : PHP and Database

### lab 1

Q : WAP to Register user in php fields: name, email, password, confirm password

html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <!-- post -->
    <h3>Register Form</h3>
    <form action="backend.php" method="post">
        <input type="text" name="name" placeholder="Name"><br><br>
        <input type="email" name="email" placeholder="Email"><br><br>
        <input type="password" name="password" placeholder="Password"><br><br>
        <input type="password" name="confirm_password" placeholder="Confirm Password"><br>
    <br>
        <button type="submit" name="submit">Submit</button>
    </form>
</body>
</html>
```

php

```
<?php
```

```

//create user Register in php

//db details
$Host = 'localhost';
$user = 'root';
$pass = '1234';
$db = 'rayyan';

//connect to db
$conn = new mysqli($Host, $user, $pass, $db);
if(!$conn){
    die('Could not connect: ' . $conn->connect_error);
}

//create user
if($_SERVER['REQUEST_METHOD'] == 'POST'){

    $name = $_POST['name'];
    $email = $_POST['email'];
    $password = $_POST['password'];
    $confirm_password = $_POST['confirm_password'];

    $error = array();

    if(! filter_var($email, FILTER_VALIDATE_EMAIL)){
        $error[] = 'Email is not valid';
    }

    if(strlen($password) < 6){
        $error[] = 'Password must be at least 6 characters';
    }

    if($password != $confirm_password){
        $error[] = 'Password do not match';
    }

    if(! empty($error)){
        echo "<pre>";
        print_r($error);
        echo "</pre>";
        return;
    }

    $password = password_hash($password, PASSWORD_DEFAULT);

    $query = "INSERT INTO users (name, email, password) VALUES (?, ?, ?)";
    $stmt = $conn->prepare($query);
    $stmt->bind_param('sss', $name, $email, $password);

    if($stmt->execute()){
        echo "User created successfully";
    }else{

```

```

        echo "Error: " . $conn->error;
    }

    $stmt->close();
    $conn->close();
}

?>

```

## lab 2

Q : WAP to Authentication user in php fields: name, email, password, confirm password

html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <title>Document</title>
</head>
<body>
    <!-- post -->
    <h3>LogIn Form</h3>
    <form action="backend.php" method="post">

        <input type="email" name="email" placeholder="Email"><br><br>
        <input type="password" name="password" placeholder="Password"><br><br>

        <button type="submit" name="submit">Login</button>
    </form>
</body>
</html>

```

php

```

<?php

// DB details
$host = 'localhost';
$user = 'root';
$pass = '1234';
$db = 'rayyan';

// Connect to the database
$conn = new mysqli($host, $user, $pass, $db);
if ($conn->connect_error) {
    die('Could not connect: ' . $conn->connect_error);
}

// Authenticate user
if ($_SERVER['REQUEST_METHOD'] == 'POST') {

    $email = $_POST['email'];

```

```

$password = $_POST['password'];

$error = [];

if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
    $error[] = 'Email is not valid';
}

if (strlen($password) < 6) {
    $error[] = 'Password must be at least 6 characters';
}

if (!empty($error)) {
    echo "<pre>";
    print_r($error);
    echo "</pre>";
    return;
}

$query = "SELECT * FROM users WHERE email = ?";
$stmt = $conn->prepare($query);
$stmt->bind_param('s', $email);
$stmt->execute();
$result = $stmt->get_result();

if ($result->num_rows > 0) {
    $user = $result->fetch_assoc();
    if (password_verify($password, $user['password'])) {
        echo "User authenticated";
        session_start();
        $_SESSION['user'] = $user;
        header('Location: index.php');
        exit;
    } else {
        echo "Invalid email or password";
    }
} else {
    echo "User not found";
}

$stmt->close();
$conn->close();
}

?>

```

## lab 3

Q : WAP to upload file in PHP

html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Document</title>
</head>
<body>
  <!-- post -->
  <h3>File Upload Form</h3>
  <form action="backend.php" method="post" enctype="multipart/form-data">
    <input type="file" name="file"> <br><br>
    <button type="submit" name="submit">Upload</button>
  </form>

</body>
</html>
```

php

```
<?php

// DB details
$host = 'localhost';
$user = 'root';
$pass = '1234';
$db = 'rayyan';

// Connect to the database
$conn = new mysqli($host, $user, $pass, $db);
if ($conn->connect_error) {
    die('Could not connect: ' . $conn->connect_error);
}

// store file in database
if ($_SERVER['REQUEST_METHOD'] == 'POST') {
    $fileName = $_FILES['file']['name'];
    $fileExtension = pathinfo($fileName, PATHINFO_EXTENSION);
    $fileSize = $_FILES['file']['size'];
    $fileTmpName = $_FILES['file']['tmp_name'];

    //validate type
    $allowed = array('pdf', 'png', 'jpg', 'jpeg');
    if (!in_array($fileExtension, $allowed)) {
        echo "Invalid file type";
        return;
    }

    // validate size
    if ($fileSize > 5000000) { // 5MB
        echo "File too large";
        return;
    }
}
```

```

// add to file Directory
$fileDestination = 'uploads/' . $fileName;
move_uploaded_file($fileTmpName, $fileDestination);

// add to database
$query = "INSERT INTO files (name, type, size, path) VALUES (?, ?, ?, ?)";
$stmt = $conn->prepare($query);
$stmt->bind_param('ssss', $fileName, $fileExtension, $fileSize, $fileDestination);

if ($stmt->execute()) {
    echo "File uploaded successfully";
} else {
    echo "Error uploading file";
}

$stmt->close();
$conn->close();
}

?>

```

## Section 5 : jQuery, ajax, xmlhttprequest

### lab 1

Q : WAP to hide, unhide, toggle visibility elements in DOM using jQuery

html

```

<!DOCTYPE html>
<html lang="en">

<head>
    <title>Document</title>
    <script src="https://code.jquery.com/jquery-3.7.1.js" integrity="sha256-
eKhay18LEQwp4NKxN+CfCh+3q0VUtJn3QNZ0TciWLP4=" crossorigin="anonymous"></script>
    <script src="script.js" defer></script>
    <style>
        #target-element {
            width: 100px;
            height: 100px;
            background-color: rgb(0, 255, 13);
            display: grid;
            place-content: center;
            margin-top: 1rem;
        }
    </style>
</head>

<body>
    <!-- post -->

```

```

<button id="show">Show</button>
<button id="hide">Hide</button>
<button id="toggle">Toggle</button>
<div id="target-element">
    target Element
</div>
</body>

</html>

```

js

```

$(document).ready(function() {
    $('#show').click(function() {
        $('#target-element').show();
    });
    $('#hide').click(function() {
        $('#target-element').hide();
    });
    $('#toggle').click(function() {
        $('#target-element').toggle();
    });
});

```

## lab 2

Q : WAP to use XMLHttpRequest and PHP

html

```

<!DOCTYPE html>
<html lang="en">

<head>
    <title>Document</title>
    <script src="https://code.jquery.com/jquery-3.7.1.js" integrity="sha256-
eKhayI8LEQwp4NKxN+CfCh+3q0VUtJn3QNZ0TciWLP4=" crossorigin="anonymous"></script>
    <script src="script.js" defer></script>
</head>

<body>
    <!-- post -->
    <button id="show-height-width">Show Height and Width</button>
    <div id="resultDiv"></div>
</body>

</html>

```

js

```

$(document).ready(function() {
    $('#show-height-width').click(function() {
        let h = window.innerHeight;

```

```

        let w = window.innerWidth;
        $('#resultDiv').text(`Height: ${h}, Width: ${w}`);
    });
});

```

## lab 3

Q : WAP to use XMLHttpRequest and PHP

html

```

<!DOCTYPE html>
<html lang="en">

<head>
    <title>Document</title>
    <script src="https://code.jquery.com/jquery-3.7.1.js" integrity="sha256-
eKhayI8LEQwp4NKxN+CfCh+3qOVUtJn3QNZ0TciWLP4=" crossorigin="anonymous"></script>
    <script src="script.js" defer></script>
</head>

<body>
    <h3>ajax POST/GET</h3>
    <input type="text" id="userInput" placeholder="Enter your name"><br><br>
    <button id="postBtn">Post Request</button>
    <button id="getBtn">Get Request</button><br><br>
    <div id="resultDiv"></div>
</body>

</html>

```

js

```

let postBtn = document.getElementById("postBtn");
let getBtn = document.getElementById("getBtn");
let resultDiv = document.getElementById("resultDiv");
let userInput = document.getElementById("userInput");

postBtn.addEventListener("click", function () {
    postRequest(userInput.value);
});

getBtn.addEventListener("click", function () {
    getRequest();
});

//post request
function postRequest(userInput) {
    $.ajax({
        type: "POST",
        url: "http://localhost:8001/backend.php",
        data: { name: userInput },
        success: function (data) {

```



```

        resultDiv.innerHTML = data;
    },
    error: function () {
        resultDiv.innerHTML = "error occurred during post request.";
    }
});
}

//get request
function getRequest() {
    $.ajax({
        type: "GET",
        url: "http://localhost:8001/backend.php",
        success: function (data) {
            resultDiv.innerHTML = data;
        },
        error: function () {
            resultDiv.innerHTML = "error occurred during get request.";
        }
    });
}

```

php

```

<?php

if ($_SERVER['REQUEST_METHOD'] === 'POST' && !empty($_POST['name'])) {
    echo "Welcome " . $_POST['name'] . "!";
}

if ($_SERVER['REQUEST_METHOD'] === 'GET') {
    echo "This is a GET request";
}

?>

```

## lab 4

Q : WAP to use XMLHttpRequest and PHP

html

```

<!DOCTYPE html>
<html lang="en">

<head>
    <title>Document</title>
    <script src="https://code.jquery.com/jquery-3.7.1.js" integrity="sha256-
eKhay18LEQwp4NKxN+CfCh+3q0VUtJn3QNZ0TciWLP4=" crossorigin="anonymous"></script>
    <script src="script.js" defer></script>
</head>

<body>

```

```

<h3>XMLHttpRequest to send data</h3>
<form id="userForm">
  <input type="text" id="userInput" placeholder="Enter your name"><br><br>
  <button type='submit' >Submit</button><br><br>
</form>
<div id="resultDiv"></div>
</body>

</html>

```

js

```

let userForm = document.getElementById("userForm");
let resultDiv = document.getElementById("resultDiv");
let userInput = document.getElementById("userInput");

userForm.addEventListener("submit", sendData);

//post request
function sendData(event) {
  event.preventDefault();
  const xhr = new XMLHttpRequest();
  xhr.open("POST", "/backend.php", true);
  xhr.setRequestHeader("Content-Type", "application/x-www-form-urlencoded");
  xhr.onreadystatechange = function() {
    if (xhr.status == 200) {
      resultDiv.innerHTML = xhr.responseText;
    } else {
      resultDiv.innerHTML = "Error: " + xhr.status;
    }
  }
  xhr.send("userInput=" + userInput.value);
}

```

php

```

<?php

if ($_SERVER['REQUEST_METHOD'] === 'POST' && !empty($_POST['userInput'])) {
  echo "Welcome " . $_POST['userInput'] . "!";
}

?>

```

## Section 6 : Wordpress

### lab 1

Q : Installation and setup

Refrence the labreport

## lab 2

Q : Add post in website

Refrence the labreport

## lab 3

Q : Add pages in website

Refrence the labreport

## lab 4

Q : Add a new theme in website

Refrence the labreport

## lab 5

Q : Add a menu in website

Refrence the labreport

## lab 6

Q :costumize theme

Refrence the labreport

---

# EOF : Hope it was helpfull

Stay connected:



*Stay tuned for more updates!*

[FeedBack](#) is always welcome.

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