1. Write a program to print “Hello World”.

<?php

echo "Hello World";

?>

1. Write a program to define Static, global and local variable.

<?php

// Global variable

$globalVar = "I am global";

function exampleFunction() {

// Local variable

$localVar = "I am local";

// Static variable

static $staticVar = "I am static";

echo "Global Variable: $GLOBALS[globalVar]<br>";

echo "Local Variable: $localVar<br>";

echo "Static Variable: $staticVar<br>";

}

exampleFunction();

?>

1. Write a program to create a form using GET & POST method retrieve the value using $\_GET and $\_POST in second page.

<!-- Form in HTML -->

<form action="second\_page.php" method="get">

Name: <input type="text" name="name"><br>

Email: <input type="text" name="email"><br>

<input type="submit" value="Submit">

</form>

<!-- second\_page.php -->

<?php

// Retrieve values using $\_GET

$name = $\_GET['name'];

$email = $\_GET['email'];

echo "Name: $name<br>";

echo "Email: $email<br>";

?>

1. Write a program to perform arithmetic operators.

<?php

$num1 = 10;

$num2 = 5;

echo "Addition: " . ($num1 + $num2) . "<br>";

echo "Subtraction: " . ($num1 - $num2) . "<br>";

echo "Multiplication: " . ($num1 \* $num2) . "<br>";

echo "Division: " . ($num1 / $num2) . "<br>";

echo "Modulus: " . ($num1 % $num2) . "<br>";

?>

1. Write a program to perform conditional structure.

<?php

$age = 20;

if ($age >= 18) {

echo "You are eligible to vote.";

} else {

echo "You are not eligible to vote.";

}

?>

1. Write a program to perform looping structure.

<?php

// For Loop

for ($i = 1; $i <= 5; $i++) {

echo "Iteration $i<br>";

}

// While Loop

$j = 1;

while ($j <= 5) {

echo "Iteration $j<br>";

$j++;

}

// Do-While Loop

$k = 1;

do {

echo "Iteration $k<br>";

$k++;

} while ($k <= 5);

?>

1. Write a program to perform all the array built in function.

<?php

// Create an array

$fruits = array("Apple", "Banana", "Orange");

// Array Functions

echo "Count: " . count($fruits) . "<br>";

echo "First Element: " . reset($fruits) . "<br>";

echo "Last Element: " . end($fruits) . "<br>";

print\_r(array\_reverse($fruits));

?>

1. Write a program to perform all the string built in functions.

<?php

$string = "Hello, World!";

// String Functions

echo "Length: " . strlen($string) . "<br>";

echo "Uppercase: " . strtoupper($string) . "<br>";

echo "Lowercase: " . strtolower($string) . "<br>";

echo "Substring: " . substr($string, 0, 5) . "<br>";

echo "Position of 'World': " . strpos($string, "World") . "<br>";

?>

1. Pattern:

1

12

123

1234

<?php

for ($i = 1; $i <= 4; $i++) {

for ($j = 1; $j <= $i; $j++) {

echo $j;

}

echo "<br>";

}

?>

1. Pattern :

1

22

333

4444

<?php

for ($i = 1; $i <= 4; $i++) {

for ($j = 1; $j <= $i; $j++) {

echo $i;

}

echo "<br>";

}

?>

1. Pattern:

1234

123

12

1

<?php

for ($i = 4; $i >= 1; $i--) {

for ($j = 1; $j <= $i; $j++) {

echo $j;

}

echo "<br>";

}

?>

1. Pattern:

4444

333

22

1

<?php

for ($i = 4; $i >= 1; $i--) {

for ($j = 1; $j <= $i; $j++) {

echo $i;

}

echo "<br>";

}

?>

1. Write a program for cookies in PHP.

<?php

// Set a cookie

setcookie("user", "John Doe", time() + 3600, "/");

// Access the cookie

if (isset($\_COOKIE["user"])) {

echo "Welcome " . $\_COOKIE["user"] . "!";

} else {

echo "Cookie not set!";

}

?>

1. Write a program for session in PHP.

<?php

// Start a session

session\_start();

// Set session variables

$\_SESSION["username"] = "John";

// Access session variables

echo "Welcome " . $\_SESSION["username"];

?>

1. Write a program to perform file uploading in PHP.

<!-- HTML Form for File Upload -->

<form action="upload.php" method="post" enctype="multipart/form-data">

Select file to upload:

<input type="file" name="fileToUpload" id="fileToUpload">

<input type="submit" value="Upload File" name="submit">

</form>

<!-- upload.php -->

<?php

$target\_dir = "uploads/";

$target\_file = $target\_dir . basename($\_FILES["fileToUpload"]["name"]);

move\_uploaded\_file($\_FILES["fileToUpload"]["tmp\_name"], $target\_file);

echo "File uploaded successfully!";

?>

1. Write a program to send a mail threw PHP script.

<?php

$to = "recipient@example.com";

$subject = "Test Mail";

$message = "This is a test email message.";

// Additional headers

$headers = "From: sender@example.com";

// Send email

mail($to, $subject, $message, $headers);

echo "Email sent successfully!";

?>

1. Write a program to perform AJAX functionality in PHP.

<!-- HTML File with AJAX Request -->

<button onclick="loadData()">Load Data</button>

<div id="output"></div>

<script>

function loadData() {

var xhttp = new XMLHttpRequest();

xhttp.onreadystatechange = function () {

if (this.readyState == 4 && this.status == 200) {

document.getElementById("output").innerHTML = this.responseText;

}

};

xhttp.open("GET", "ajax\_example.php", true);

xhttp.send();

}

</script>

<!-- ajax\_example.php -->

<?php

echo "Data loaded from AJAX request!";

?>

1. Write a program to perform AJAX functionality using PHP and mysql.

<!-- index.html -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>AJAX Example</title>

</head>

<body>

<h2>Students Information</h2>

<button onclick="loadData()">Load Data</button>

<div id="output"></div>

<script>

function loadData() {

var xhttp = new XMLHttpRequest();

xhttp.onreadystatechange = function () {

if (this.readyState == 4 && this.status == 200) {

var data = JSON.parse(this.responseText);

displayData(data);

}

};

xhttp.open("GET", "ajax\_data.php", true);

xhttp.send();

}

function displayData(data) {

var outputDiv = document.getElementById("output");

outputDiv.innerHTML = ""; // Clear previous data

for (var i = 0; i < data.length; i++) {

outputDiv.innerHTML += "<p>ID: " + data[i].stud\_id +

", Name: " + data[i].stud\_name +

", Enrollment: " + data[i].stud\_enroll +

", Gender: " + data[i].stud\_gender +

", Mobile: " + data[i].stud\_mob +

", DOB: " + data[i].stud\_dob + "</p>";

}

}

</script>

</body>

</html>

<?php

// Connect to MySQL

$conn = mysqli\_connect("localhost", "username", "password", "paruluniversity");

// Check connection

if (!$conn) {

die("Connection failed: " . mysqli\_connect\_error());

}

// Fetch data from MySQL

$sql = "SELECT \* FROM mca";

$result = mysqli\_query($conn, $sql);

// Convert data to JSON

$data = array();

while ($row = mysqli\_fetch\_assoc($result)) {

$data[] = $row;

}

echo json\_encode($data);

// Close connection

mysqli\_close($conn);

?>

1. Write program to perform JSON function json\_encode and json\_decode.

<?php

// Encoding data to JSON

$data = array("name" => "John", "age" => 30, "city" => "New York");

$jsonString = json\_encode($data);

echo "Encoded JSON: $jsonString<br>";

// Decoding JSON

$decodedData = json\_decode($jsonString, true);

echo "Decoded Data: ";

print\_r($decodedData);

?>

1. Create database paruluniversity create a table MCA and put the record in mca table with field stud\_id,stud\_enroll,stud\_name,stud\_gender,stud\_mob,stud\_gender,stud\_dob.

CREATE DATABASE paruluniversity;

USE paruluniversity;

CREATE TABLE MCA (

stud\_id INT AUTO\_INCREMENT PRIMARY KEY,

stud\_enroll VARCHAR(20),

stud\_name VARCHAR(100),

stud\_gender VARCHAR(10),

stud\_mob VARCHAR(15),

stud\_dob DATE

);

1. Write a program to display practical no 20 table records threw PHP script in tabular format.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Display Records</title>

</head>

<body>

<?php

// Connect to MySQL

$conn = mysqli\_connect("localhost", "username", "password", "paruluniversity");

// Check connection

if (!$conn) {

die("Connection failed: " . mysqli\_connect\_error());

}

// Fetch data from MySQL

$sql = "SELECT \* FROM mca";

$result = mysqli\_query($conn, $sql);

// Display data in tabular format

echo "<table border='1'>";

echo "<tr><th>ID</th><th>Name</th><th>Enrollment</th><th>Gender</th><th>Mobile</th><th>DOB</th></tr>";

while ($row = mysqli\_fetch\_assoc($result)) {

echo "<tr>";

echo "<td>{$row['stud\_id']}</td>";

echo "<td>{$row['stud\_name']}</td>";

echo "<td>{$row['stud\_enroll']}</td>";

echo "<td>{$row['stud\_gender']}</td>";

echo "<td>{$row['stud\_mob']}</td>";

echo "<td>{$row['stud\_dob']}</td>";

echo "</tr>";

}

echo "</table>";

// Close connection

mysqli\_close($conn);

?>

</body>

</html>

1. Write a PHP program to create a form and put the records on the table.

<!-- form\_records.php -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Form Records</title>

</head>

<body>

<form action="process\_form.php" method="post">

Name: <input type="text" name="name"><br>

Enrollment: <input type="text" name="enrollment"><br>

Gender: <input type="text" name="gender"><br>

Mobile: <input type="text" name="mobile"><br>

DOB: <input type="text" name="dob"><br>

<input type="submit" value="Submit">

</form>

</body>

</html>

<!-- process\_form.php -->

<?php

// Connect to MySQL

$conn = mysqli\_connect("localhost", "username", "password", "paruluniversity");

// Check connection

if (!$conn) {

die("Connection failed: " . mysqli\_connect\_error());

}

// Process form data

$name = $\_POST['name'];

$enrollment = $\_POST['enrollment'];

$gender = $\_POST['gender'];

$mobile = $\_POST['mobile'];

$dob = $\_POST['dob'];

// Insert data into MySQL

$sql = "INSERT INTO mca (stud\_name, stud\_enroll, stud\_gender, stud\_mob, stud\_dob) VALUES ('$name', '$enrollment', '$gender', '$mobile', '$dob')";

mysqli\_query($conn, $sql);

// Close connection

mysqli\_close($conn);

// Redirect back to the form

header("Location: form\_records.php");

exit();

?>

1. Write a PHP script to edit the records in database.

<!-- edit\_records.php -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Edit Records</title>

</head>

<body>

<?php

// Connect to MySQL

$conn = mysqli\_connect("localhost", "username", "password", "paruluniversity");

// Check connection

if (!$conn) {

die("Connection failed: " . mysqli\_connect\_error());

}

if (isset($\_GET['edit\_id'])) {

$edit\_id = $\_GET['edit\_id'];

$sql = "SELECT \* FROM mca WHERE stud\_id = $edit\_id";

$result = mysqli\_query($conn, $sql);

$row = mysqli\_fetch\_assoc($result);

// Display the form with data for editing

echo "<form action='update\_records.php' method='post'>";

echo "Name: <input type='text' name='name' value='{$row['stud\_name']}'><br>";

echo "Enrollment: <input type='text' name='enrollment' value='{$row['stud\_enroll']}'><br>";

echo "Gender: <input type='text' name='gender' value='{$row['stud\_gender']}'><br>";

echo "Mobile: <input type='text' name='mobile' value='{$row['stud\_mob']}'><br>";

echo "DOB: <input type='text' name='dob' value='{$row['stud\_dob']}'><br>";

echo "<input type='hidden' name='edit\_id' value='{$row['stud\_id']}'>";

echo "<input type='submit' value='Update'>";

echo "</form>";

}

// Close connection

mysqli\_close($conn);

?>

</body>

</html>

<!-- update\_records.php -->

<?php

// Connect to MySQL

$conn = mysqli\_connect("localhost", "username", "password", "paruluniversity");

// Check connection

if (!$conn) {

die("Connection failed: " . mysqli\_connect\_error());

}

// Process form data for update

$edit\_id = $\_POST['edit\_id'];

$name = $\_POST['name'];

$enrollment = $\_POST['enrollment'];

$gender = $\_POST['gender'];

$mobile = $\_POST['mobile'];

$dob = $\_POST['dob'];

// Update data in MySQL

$sql = "UPDATE mca SET stud\_name='$name', stud\_enroll='$enrollment', stud\_gender='$gender', stud\_mob='$mobile', stud\_dob='$dob' WHERE stud\_id=$edit\_id";

mysqli\_query($conn, $sql);

// Close connection

mysqli\_close($conn);

// Redirect back to display\_records.php or another page

header("Location: display\_records.php");

exit();

?>

1. Write a PHP script to delete records in the database.

<!-- delete\_records.php -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Delete Records</title>

</head>

<body>

<?php

// Connect to MySQL

$conn = mysqli\_connect("localhost", "username", "password", "paruluniversity");

// Check connection

if (!$conn) {

die("Connection failed: " . mysqli\_connect\_error());

}

if (isset($\_GET['delete\_id'])) {

$delete\_id = $\_GET['delete\_id'];

// Delete record from MySQL

$sql = "DELETE FROM mca WHERE stud\_id = $delete\_id";

mysqli\_query($conn, $sql);

echo "Record with ID $delete\_id deleted successfully!";

}

// Close connection

mysqli\_close($conn);

?>

</body>

</html>

1. Write a program to perform JQuery events like : Click, dbclick, keypress, keydown, keyup, submit,change, focus, blur, load, resize, scroll, unlode.

<!-- index.html -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>jQuery Events</title>

<script src="https://code.jquery.com/jquery-3.6.4.min.js"></script>

<script>

$(document).ready(function () {

// Click Event

$("#clickBtn").click(function () {

alert("Button Clicked!");

});

// Double Click Event

$("#doubleClickDiv").dblclick(function () {

alert("Double Clicked!");

});

// Key Press Event

$("#keyPressInput").keypress(function () {

alert("Key Pressed!");

});

// Key Down Event

$("#keyDownInput").keydown(function () {

alert("Key Down!");

});

// Key Up Event

$("#keyUpInput").keyup(function () {

alert("Key Up!");

});

// Submit Event

$("#submitForm").submit(function (e) {

e.preventDefault();

alert("Form Submitted!");

});

// Change Event

$("#changeSelect").change(function () {

alert("Select Value Changed!");

});

// Focus Event

$("#focusInput").focus(function () {

alert("Input Focused!");

});

// Blur Event

$("#blurInput").blur(function () {

alert("Input Blurred!");

});

// Load Event

$(window).load(function () {

alert("Page Loaded!");

});

// Resize Event

$(window).resize(function () {

alert("Window Resized!");

});

// Scroll Event

$(window).scroll(function () {

alert("Window Scrolled!");

});

// Unload Event

$(window).unload(function () {

alert("Page Unloaded!");

});

});

</script>

</head>

<body>

<button id="clickBtn">Click Me</button>

<div id="doubleClickDiv" style="border: 1px solid black; padding: 10px;">

Double Click Me

</div>

<input type="text" id="keyPressInput" placeholder="Press a Key">

<input type="text" id="keyDownInput" placeholder="Key Down">

<input type="text" id="keyUpInput" placeholder="Key Up">

<form id="submitForm">

<input type="submit" value="Submit Form">

</form>

<select id="changeSelect">

<option value="1">Option 1</option>

<option value="2">Option 2</option>

<option value="3">Option 3</option>

</select>

<input type="text" id="focusInput" placeholder="Focus">

<input type="text" id="blurInput" placeholder="Blur">

</body>

</html>

1. Write a program to perform JQuery effects like : hide show, fade, slide.

<!-- index.html -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>jQuery Effects</title>

<script src="https://code.jquery.com/jquery-3.6.4.min.js"></script>

<script>

$(document).ready(function () {

// Hide and Show Effects

$("#hideBtn").click(function () {

$("#hideShowDiv").hide(1000); // Hide with animation (1000 milliseconds)

});

$("#showBtn").click(function () {

$("#hideShowDiv").show(1000); // Show with animation (1000 milliseconds)

});

// Fade In and Fade Out Effects

$("#fadeInBtn").click(function () {

$("#fadeInOutDiv").fadeIn(1000); // Fade In with animation (1000 milliseconds)

});

$("#fadeOutBtn").click(function () {

$("#fadeInOutDiv").fadeOut(1000); // Fade Out with animation (1000 milliseconds)

});

// Slide Down and Slide Up Effects

$("#slideDownBtn").click(function () {

$("#slideDownUpDiv").slideDown(1000); // Slide Down with animation (1000 milliseconds)

});

$("#slideUpBtn").click(function () {

$("#slideDownUpDiv").slideUp(1000); // Slide Up with animation (1000 milliseconds)

});

});

</script>

</head>

<body>

<button id="hideBtn">Hide</button>

<button id="showBtn">Show</button>

<div id="hideShowDiv" style="border: 1px solid black; padding: 10px;">

Hide and Show

</div>

<button id="fadeInBtn">Fade In</button>

<button id="fadeOutBtn">Fade Out</button>

<div id="fadeInOutDiv" style="border: 1px solid black; padding: 10px;">

Fade In and Fade Out

</div>

<button id="slideDownBtn">Slide Down</button>

<button id="slideUpBtn">Slide Up</button>

<div id="slideDownUpDiv" style="border: 1px solid black; padding: 10px;">

Slide Down and Slide Up

</div>

</body>

</html>

1. Write a program to create a class and object.

<?php

class Student {

// Properties

public $name;

public $rollNumber;

// Constructor

public function \_\_construct($name, $rollNumber) {

$this->name = $name;

$this->rollNumber = $rollNumber;

}

// Method

public function displayInfo() {

echo "Name: {$this->name}, Roll Number: {$this->rollNumber}";

}

}

// Create an object of the class

$student1 = new Student("John Doe", "MCA123");

// Call the method

$student1->displayInfo();

?>

1. Write a program to perform constructor and destructor in class.

<?php

class MyClass {

// Constructor

public function \_\_construct() {

echo "Constructor called!<br>";

}

// Destructor

public function \_\_destruct() {

echo "Destructor called!<br>";

}

// Method

public function showMessage() {

echo "Hello, World!<br>";

}

}

// Create an object of the class

$obj = new MyClass();

// Call the method

$obj->showMessage();

?>

1. Write a program to perform inheritance.

<?php

// Base class

class Animal {

public $name;

public function \_\_construct($name) {

$this->name = $name;

}

public function eat() {

echo $this->name . " is eating.<br>";

}

}

// Derived class

class Cat extends Animal {

public function meow() {

echo $this->name . " says meow.<br>";

}

}

// Create objects

$animal = new Animal("Generic Animal");

$cat = new Cat("Whiskers");

// Use inherited methods

$animal->eat();

$cat->eat();

$cat->meow();

?>

1. Write a program to perform scope resolution operator in class.

<?php

// Base class

class ParentClass {

const CONSTANT\_VALUE = "I am a constant";

public static function staticMethod() {

echo "Static method in ParentClass.<br>";

}

}

// Derived class

class ChildClass extends ParentClass {

public static function staticMethod() {

echo "Static method in ChildClass.<br>";

parent::staticMethod(); // Call the static method from the parent class

echo parent::CONSTANT\_VALUE . "<br>"; // Access constant from the parent class

}

}

// Call the static method from the child class

ChildClass::staticMethod();

?>

1. Write a program to perform Mysql Database handling with oop (insert, update, select, delete).

<?php

// Database class

class Database {

private $conn;

public function \_\_construct($host, $username, $password, $database) {

$this->conn = new mysqli($host, $username, $password, $database);

if ($this->conn->connect\_error) {

die("Connection failed: " . $this->conn->connect\_error);

}

}

public function insertData($name, $enroll, $gender, $mobile, $dob) {

$sql = "INSERT INTO mca (stud\_name, stud\_enroll, stud\_gender, stud\_mob, stud\_dob)

VALUES ('$name', '$enroll', '$gender', '$mobile', '$dob')";

return $this->conn->query($sql);

}

public function updateData($id, $name, $enroll, $gender, $mobile, $dob) {

$sql = "UPDATE mca

SET stud\_name='$name', stud\_enroll='$enroll', stud\_gender='$gender', stud\_mob='$mobile', stud\_dob='$dob'

WHERE stud\_id=$id";

return $this->conn->query($sql);

}

public function selectData() {

$result = $this->conn->query("SELECT \* FROM mca");

$data = [];

while ($row = $result->fetch\_assoc()) {

$data[] = $row;

}

return $data;

}

public function deleteData($id) {

$sql = "DELETE FROM mca WHERE stud\_id = $id";

return $this->conn->query($sql);

}

public function \_\_destruct() {

$this->conn->close();

}

}

// Usage

$db = new Database("localhost", "username", "password", "paruluniversity");

// Insert data

$db->insertData("John Doe", "EN123", "Male", "1234567890", "1990-01-01");

// Update data

$db->updateData(1, "Updated Name", "EN456", "Female", "9876543210", "1995-05-05");

// Select data

$data = $db->selectData();

print\_r($data);

// Delete data

$db->deleteData(2);

?>