PHP/MYSQL LAB PROGRAMS

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PHP & MySQL Lab Programs

1. Write a PHPscript to print "hello world".

```
<!DOCTYPE>
<html>
<body>
<?php
echo "<h2>Hello World</h2>";
?>
</body>
</html>
```
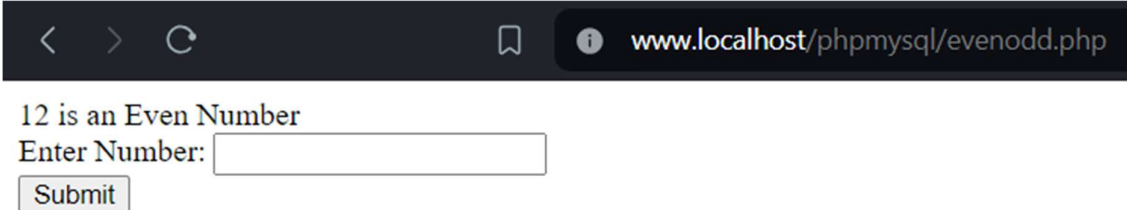**Output:**
Hello World

2 Write a PHPscript to find odd or even number from given number.
```
<!DOCTYPE>
<html>
<body>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
   $number= $_POST["number"];
    if( $number % 2 == 0 )
    {
    echo"$number is an Even Number";
    }
    else
    {
    echo"$number is an Odd Number";
    }
 }
?>
<h1>Check Even or Odd Number</h1>
<form method="POST">
Enter Number: <input type="text" name="number"><br>
<input type="submit">
</form>
</body>
</html>
```
Output:

12 is an Even Number
Enter Number: [   ]
Submit

3 Write a PHPscript to find maximum of three numbers.

```php
<!DOCTYPE>
<html>
<body>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $n1= $_POST["number1"];
    $n2= $_POST["number2"];
    $n3= $_POST["number3"];
    if ($n1 >= $n2 && $n1 >= $n3)
    echo "$n1 is the maximum of $n1,$n2,$n3";
    else if($n2 >= $n3)
    echo "$n2 is the maximum of $n1,$n2,$n3";
    else
    echo "$n3 is the maximum of $n1,$n2,$n3";
 }
?>
<h1>Maximum of Three Numbers</h1>
<form method="POST">
Enter Number1: <input type="text" name="number1" required><br/>
Enter Number2: <input type="text" name="number2" required><br/>
Enter Number3: <input type="text" name="number3" required><br/>
<input type="submit" value="Find Maximum">
</form>
</body>
</html>
```

Output:

7 is the maximum of 4,2,7

Maximum of Three Numbers

Enter Number1: [ ]
Enter Number2: [ ]
Enter Number3: [ ]
[Find Maximum]

4.Write a PHPscript to swap two numbers.
File:swap.php
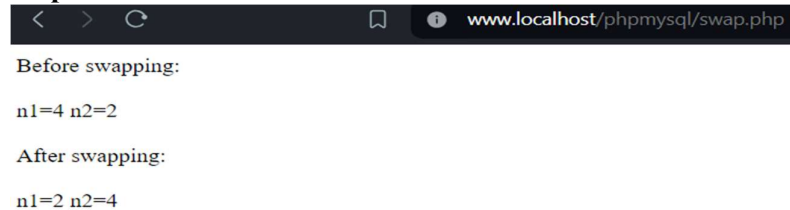
```php
<!DOCTYPE>
<html>
<body>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $n1= $_POST["number1"];
    $n2= $_POST["number2"];
    echo "Before swapping:<br><br>";
```

```php
    echo "n1=".$n1."  n2=".$n2;
    $third = $n1;
    $n1 = $n2;
    $n2 = $third;
    echo "<br><br>After swapping:<br><br>";
    echo "n1=".$n1."  n2=".$n2;
 }
?>
<h1>Swapping Two Numbers</h1>
<form method="POST">
Enter Number1: <input type="text" name="number1" required><br/><br/>
Enter Number2: <input type="text" name="number2" required><br/>
<input type="submit" value="SWAP NUMBERS">
</form>
</body>
</html>
```

Ouput:

Before swapping:

n1=4 n2=2

After swapping:

n1=2 n2=4

Swapping Two Numbers

Enter Number1: [   ]

Enter Number2: [   ]
SWAP NUMBERS

5. Write a PHPscript to find the factorial of a number

```php
<!DOCTYPE>
<html>
<body>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $number= $_POST["number"];
    $fact = 1;
    echo "Factorial of $number:<br><br>";
    for ($i = 1; $i <= $number; $i++){
        $fact = $fact * $i;
        }
        echo $fact . "<br>";
 }
?>
<h1>Factorial of a Number</h1>
<form method="POST">
```

Enter Number: <input type="text" name="number" required>
<input type="submit" value="Find Factorial">
</form>
</body>
</html>
Output:

Factorial of 5:

120

Factorial of a Number

Enter Number1: [   ]
Find Factorial

6 .Write a PHPscript to check whether given number is palindrome or not.
```
<!DOCTYPE>
<html>
<body>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $num= $_POST["number"];
    $rev=0;
    $x=$num;
    while( floor($num))
    {
    $rem=$num % 10;
    $num=$num / 10;
    $rev=$rev * 10 + $rem;
    }
echo "The number = $x <br>";
echo "Reverse of the number = $rev <br>";
if ($x == $rev)
echo "The number is a palindrome <br>";
else
echo "The number is not a palindrome <br>";
}
?>
<h1>Check If the number is a Palindrome</h1>
<form method="POST">
Enter Number: <input type="text" name="number" required><br/><br>
<input type="submit" value="Check Palindrome">
</form>
</body>
</html>
```

Output:

The number = 323
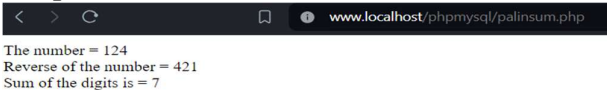Reverse of the number = 323
The number is a palindrome

Check If the number is a Palindrome

Enter Number: [   ]

[Check Palindrome]

7.Write a PHP script to reverse a given number and calculate its sum

```php
<!DOCTYPE>
<html>
<body>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
   $num= $_POST["number"];
   $sum=0;
   $rev=0;
   $x=$num;
   while( floor($num))
   {
   $rem=$num % 10;
   $num=$num / 10;
   $rev=$rev * 10 + $rem;
   $sum=$sum + $rem;
   }

echo "The number = $x <br>";
echo "Reverse of the number = $rev <br>";
echo "Sum of the digits is = $sum <br>";
}
?>
<h1>Reverse and sum of digits</h1>
<form method="POST">
Enter Number: <input type="text" name="number" required><br/><br>
<input type="submit" value="Find Sum">
</form>
</body>
</html>
```

Output:

`www.localhost`/phpmysql/palinsum.php

The number = 124
Reverse of the number = 421
Sum of the digits is = 7

Reverse and sum of digits

Enter Number: [   ]

[Find Sum]

8.Write a PHP script to to generate a Fibonacci series using Recursive function.

```php
<!DOCTYPE>
<html>
<body>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
   $num= $_POST["number"];
  echo "<h3>Fibonacci series using recursive function:</h3>";
echo "\n";
/* Recursive function for fibonacci series. */
function series($num){
   if($num == 0){
   return 0;
   }else if( $num == 1){
return 1;
}  else {
return (series($num-1) + series($num-2));
}
}
/* Call Function. */
for ($i = 0; $i < $num; $i++){
echo series($i);
echo "\n";
}
}
?>
<h1>Fibonacci Series</h1>
<form method="POST">
Enter Number: <input type="text" name="number" required><br/><br/>
<input type="submit" value="Enter End of Series">
</form>
</body>
</html>
```

Output:

Fibonacci series using recursive function:

0 1 1 2 3 5 8 13 21 34 55 89

Fibonacci Series

Enter Number: [   ]

[Enter End of Series]

9.Write a PHP script to implement atleast seven string functions.

```php
<?php
echo"<h1> String Operations </h1>";
$text = "Hello, World!";
$length = strlen($text);
echo "The length of the string $text is $length characters. <br><br>";
$pos = strpos($text, "World");
echo "The word 'World' starts at position $pos. <br><br>";
$newText = str_replace("World", "Universe", $text);
echo "Replaced: $newText <br><br>";
$substring = substr($text, 0, 5);
echo "The first 5 characters are: $substring <br><br>";
$uppercase = strtoupper($text);
echo "Uppercase: $uppercase <br><br>";
$lowercase = strtolower($text);
echo "Lowercase: $lowercase <br><br>";
$reversed = strrev($text);
echo "Reversed: $reversed <br><br>";
?>
```
O/P:

The length of the string is 13 characters.

The word 'World' starts at position 7.

Replaced: Hello, Universe!

The first 5 characters are: Hello

Uppercase: HELLO, WORLD!

Lowercase: hello, world!

Reversed: !dlroW ,olleH

10. Write a PHP program to insert new item in array on any position in PHP.

```php
<!DOCTYPE>
<html>
<body>
<?php
//Original Array on which operations is to be perform
$original_array = array( '1', '2', '3', '4', '5' );
echo 'Original array :';
foreach ($original_array as $x)
{
echo "$x ";
}
echo "\n";
if ($_SERVER["REQUEST_METHOD"] == "POST") {
//value of new item
```

```php
$inserted_value = $_POST["number"];
//value of position at which insertion is to be done
$position = $_POST["pos"];
//array_splice() function
array_splice( $original_array, $position, 0, $inserted_value );
echo "<br><br>After inserting $inserted_value in the array position $position is :";
foreach ($original_array as $x)
{
echo"$x ";
}
}
?>
<h1>Array Insertion</h1>
<form method="POST">
Enter Number: <input type="text" name="number" required><br/><br/>
Enter Position: <input type="text" name="pos" required><br/>
<input type="submit" value="Insert">
</form>
</body>
</html>
```

Output:

Original array :1 2 3 4 5

After inserting 12 in the array position 2 is :1 2 12 3 4 5

Array Insertion

Enter Number: [_____]

Enter Position: [_____]
[Insert]

11. Write a PHPscript to implement constructor and destructor.
```php
<?php
class Employee
{
   /* Member variables */
var $name;
var $salary;

// Constructor
public function __construct($name,$salary){
```

```php
echo("In constructor <br><br>");
$this->name=$name;
$this->salary=$salary;
}
// destructor
public function __destruct(){
    echo "In Destructor<br>";
    echo ("Name: $this->name and Salary: $this->salary");
}
}
// creating object
$employee_1 = new Employee("John","10000");
?>
```
Output

In constructor

In Destructor
Name: John and Salary: 10000

12. Write a PHP Script to implement form handling using GET method.
Getform.html
```html
<!DOCTYPE html>
<html>
<h1>GET METHOD</h1>
<form method="GET" action="get.php">
Enter Name: <input type="text" name="name" required><br/><br/>
Enter Age: <input type="text" name="age" required><br/><br/>
<input type="submit" value="submit">
</form>
</body>
</html>
```
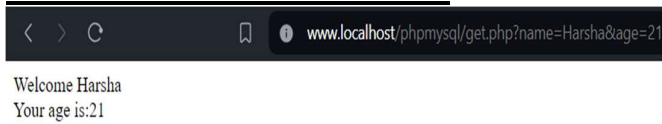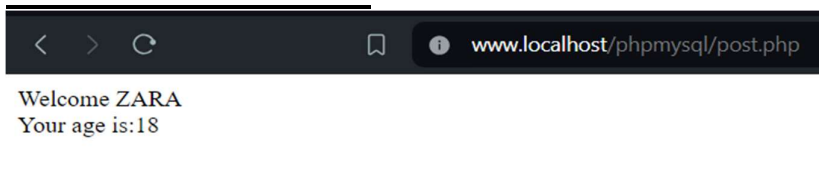**Get.php**
```php
<!DOCTYPE html>
<html>
<body>
Welcome <?php echo $_GET["name"]; ?><br/>
Your age is:<?php echo $_GET["age"]; ?>
</body>
</html>
```
Output

GET METHOD

Enter Name: Harsha

Enter Age: 21|

submit

< > C   www.localhost/phpmysql/get.php?name=Harsha&age=21

Welcome Harsha
Your age is:21

13. Write a PHP Script to implement form handling using GET method.
postform.html
<!DOCTYPE html>
<html>
<h1>POST METHOD</h1>
<form method="POST" action="post.php">
Enter Name: <input type="text" name="name" required>

Enter Age: <input type="text" name="age" required>

<input type="submit" value="submit">
</form>
</body>
</html>
post.php
<!DOCTYPE html>
<html>
<body>
Welcome <?php echo $_POST["name"]; ?>
Your age is:<?php echo $_POST["age"]; ?>
</body>
</html>
Output

POST METHOD

Enter Name: ZARA

Enter Age: 18

submit

< > C   www.localhost/phpmysql/post.php

Welcome ZARA
Your age is:18

14. Write a PHP script that receive form input by the method post to check the number is prime or not.

```php
<!DOCTYPE>
<html>
<body>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $n= $_POST["number"];
    $c=0;
    for ($i = 1; $i <= $n; $i++)
    {
    if (($n % $i) == 0)
        $c++;
    }
    if ($c == 2)
    echo("$n is a Prime number<br/><br/>");
    else
    echo("$n is not a Prime number <br/><br/>");

 }
?>
<h1>PRIME NUMBER CHECKING</h1>
<form method="POST">
Enter Number: <input type="text" name="number" required><br/>
<input type="submit" value="Find PRIME">
</form>
</body>
</html>
```

Output:

11 is a Prime number

PRIME NUMBER CHECKING

Enter Number: [   ]
[Find PRIME]

15. Write a PHP script that receive string as a form input

```php
<!DOCTYPE>
<html>
<body>
<h1>RECEIVE STRING AS INPUT</h1>
<form method="POST">
Enter Name: <input type="text" name="name" required><br/>
<input type="submit" value="Print Name">
</form>
```

```php
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $n= $_POST["name"];

    echo("Name Entered is $n");


 }
?>
</body>
</html>
```

Output:

RECEIVE STRING AS INPUT

Enter Name: [_____]
[Print Name]

Name Entered is ZARA

16. Write a PHP script to compute addition of two matrices as a form input.

```php
<!DOCTYPE html>
<html>
   <body>
   <form method='get'>
<input type='submit' name='submit' value='MATRIX ADDITION'>
</form>
<?php

if(isset($_GET['submit']))
{
  $a=array(
        array(1,2,3),
        array(1,2,3),
        array(1,2,3)
      );
  $b=array(
        array(1,2,3),
        array(1,2,3),
        array(1,2,3)
      );
  print "\n Matrix 1: <br>";
  for($i=0;$i<3;$i++)
    {
    for($j=0;$j<3;$j++)
    {
      echo $a[$i][$j]," ";
    }
    echo "<br>";
    }
  echo "\n Matrix 2: <br>";
```

```php
for($i=0;$i<3;$i++)
  {
    for($j=0;$j<3;$j++)
    {
       echo $b[$i][$j]," ";
    }
    echo "<br>";
    }
  $sum=array();
  echo "\n Sum of Matrices: <br>";
  for($i=0;$i<3;$i++)
  {
    for($j=0;$j<3;$j++)
    {
       echo $a[$i][$j]+$b[$i][$j]," ";
    }
    echo "<br>";
    }
}
?>
</body>
</html>
```

Output:

MATRIX ADDITION

Matrix 1:
1 2 3
1 2 3
1 2 3
Matrix 2:
1 2 3
1 2 3
1 2 3
Sum of Matrices:
2 4 6
2 4 6
2 4 6

17 Write a PHP script to show the functionality of date and time function.

```php
<!DOCTYPE>
<html>
<body>
<h1>Date function Implementation</h1>
<?php
```

```php
echo "Time using date function: ".date("h:i:s");
echo "<br/>";
echo "Date and Time using date function: ".date("M,d,Y h:i:s A");
echo "<br/>";
echo "Time with am/pm:".date("h:i a");
echo "<br/>";
$timestamp = time();
echo("Timestamp is $timestamp");
echo "<br/>";
echo("Date with Timestamp:".date("F d, Y h:i:s A", $timestamp));
echo "<br/>";
echo "Timestamp using mktime:".mktime(23, 21, 50, 11, 25, 2017);
?>
</body>
</html>
```
Output:

Date function Implementation

Time using date function: 09:57:06
Date and Time using date function: Apr,29,2024 09:57:06 AM
Time with am/pm:09:57 am
Timestamp is 1714377426
Date with Timestamp:April 29, 2024 09:57:06 AM
Timestamp using mktime:1511648510

18. Write a PHP script to upload a File
Note: Create a folder "upload" in the current directory
```php
<html>
   <head>
      <title>File Uploading</title>
   </head>
   <body>
   <?php
   if($_SERVER['REQUEST_METHOD']=='POST'){
      $target_path = "upload/";
      $target_path = $target_path.basename( $_FILES['fileToUpload']['name']);
      if(move_uploaded_file($_FILES['fileToUpload']['tmp_name'], $target_path))
{
      echo "File uploaded successfully!";
      } else{
      echo "Sorry, file not uploaded, please try again!";
      } }
?>
```

```
<h1> FILE UPLOADING </h1>
<form method="post" enctype="multipart/form-data">
Select File:
<input type="file" name="fileToUpload"/>
<input type="submit" value="Upload Image" name="submit"/>
</form>
</body>
</html>
```

Output:

FILE UPLOADING

Select File: [Choose File] ball.jpg   [Upload Image]

File uploaded successfully!

FILE UPLOADING

Select File: [Choose File] No file chosen   [Upload Image]

19 Write a PHP script to implement database creation

```php
<?php
$servername = "localhost";
$username = "root";
$password = "";
// Create connection
$conn = mysqli_connect($servername, $username, $password);
// Check connection
if (!$conn) {
  die("Connection failed: " . mysqli_connect_error());
}
echo "Connected successfully <br/><br/>";
// Create database
$sql = "CREATE DATABASE myDB";
if ($conn->query($sql) === TRUE) {
  echo "Database created successfully";
} else {
  echo "Error creating database: " . $conn->error;
}
$conn->close();
?>
```

Output:

Connected successfully

Database created successfully

20 Write a PHP script to create table

```php
<?php
$host = 'localhost:3306';
$user = 'root';
$pass = '';
$dbname = 'test';

$conn = mysqli_connect($host, $user, $pass,$dbname);
if(!$conn){
  die('Could not connect: '.mysqli_connect_error());
}
echo 'Connected successfully<br/><br/>';

$sql = "create table emp(id INT AUTO_INCREMENT,name VARCHAR(20) NOT
NULL,emp_salary INT NOT NULL,primary key (id))";
if(mysqli_query($conn, $sql)){
 echo "Table emp created successfully";
}else{
echo "Could not create table: ". mysqli_error($conn);
}
mysqli_close($conn);
?>
```

Output:

Connected successfully

Table emp created successfully

21. Develop a PHP program to design a college admission form using MYSQL database.

```html
<html>
<head>
</head>
<body>
<h2>College Admission Form</h2>
<form method="post" >
  <label>Name:</label><br>
  <input type="text" name="name" required><br><br>

  <label>Email:</label><br>
  <input type="email" name="email" required><br><br>

  <label>Phone:</label><br>
  <input type="text" name="phone" required><br><br>
```

```php
    <label>Course:</label><br>
    <select name="course">
       <option value="Computer Science">Computer Science</option>
       <option value="Engineering">Engineering</option>
       <option value="Mathematics">Mathematics</option>
    </select><br><br>
    <input type="submit" value="Submit">
</form>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
$host = 'localhost';
$user = 'root';
$pass = '';
$dbname='test';

$conn = mysqli_connect($host, $user, $pass,$dbname);

if(!$conn){
   die('Could not connect: '.mysqli_connect_error());
  }
$name = $_POST['name'];
$email = $_POST['email'];
$phone = $_POST['phone'];
$course = $_POST['course'];

$sql = "INSERT INTO admissions VALUES ('$name', '$email', $phone, '$course')";

if ($conn->query($sql) === TRUE)
   echo "New record created successfully";
else
   echo "Error: " . $sql . "<br>" . $conn->error;
$conn->close();
}
?>

</body>
</html>
```
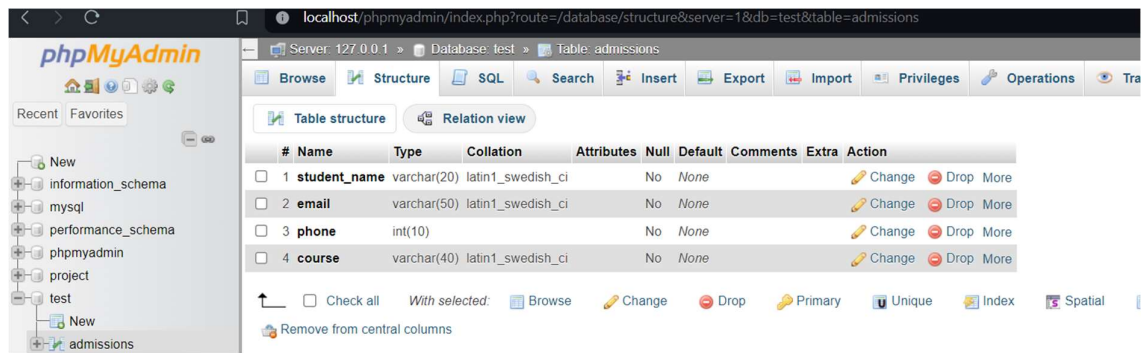
OUTPUT:
1. Create table "admissions" inside database "test" with columns->student_name,email,phone,course.

College Admission Form

Name:

Email:

Phone:

Course:
Computer Science ⌄

Submit

New record created successfully

Record in Database:

student_name	email	phone	course
Harsha	h@gmail.com	2147483647	Computer Science

☐ Show all | Number of rows: 25 ⌄ | Filter rows: Search this table