

1- Prime Numbers

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Prime numbers</title>

</head>

<body>

    <form method="post">

        <input type="text" name="number" placeholder="Enter a number" required><br><br>

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

        <input type="reset" value="Reset">

    </form>


    <?php

    // Program code to check for prime numbers


function check_prime($n) {

    if ($n < 2) {

        return "The Number {$n} is not a prime";

    }

    for ($i = 2; $i <= sqrt($n); $i++) {

        if ($n % $i == 0) {

            return "The Number {$n} is not a prime";

        }

    }

    return "The Number {$n} is a prime";

}


if (isset($_POST['submit'])) {

    $number = intval($_POST['number']);

    echo check_prime($number);

}

?>

</body>

</html>
```

2- Multiplication Table

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Prime Numbers</title>

</head>

<body>

    <form method="post">

        <input type="text" name="number" placeholder="Enter a number" required><br><br>

        <input type="text" name="limit" placeholder="Enter limit" required><br><br>

        <input type="submit" name="generate" value="Generate value">

    </form>

</body>

</html>
```

```
</form>

<?php

    if (isset($_POST ['generate'])) {

        $number = intval($_POST['number']);

        $limit = intval($_POST ['limit']);


        echo "<h2>Multiplication Table for {$number}</h2>";

        echo "<table>";

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

            $result = $number * $i;

            echo "$number x $i = $result<br>";

        }

        echo "</table>";

    }

?>
```

```
</body>

</html>
```

**3- Vowel checking**

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Vowel Checking</title>

</head>

<body>

    <form method="post">

        <input type="text" name="letter" placeholder="Enter a letter" required>

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

    </form>

    <?php

        if($_SERVER ['REQUEST_METHOD'] == "POST") {

            $letter = strtoupper(trim($_POST['letter']));


            if(strlen($letter) == 1 && ctype_alpha($letter)) {

                switch($letter) {

                    case 'A':

                    case 'I':

                    case 'O':

                    case 'U':

                    case 'E':

                        echo "<p>{$letter} is a vowel</p>";

                        break;

                        default:

                            echo "<p>{$letter} is not a vowel</p>";

                            break;

                }

            }else {

                echo "<p>please Enter a single Letter</p>";

            }

        }
```

```
    }

    ?>

</body>

</html>
```

**4- Index Array**

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Index Array</title>

</head>

<body>

    <?php

        $cars = array("Hondacity", "BMW", "23");

        echo "<h2>Printing the type and lenght of the array</h2><br>";

        echo var_dump($cars);

        echo "<h2>Printing the array using print_r statement</h2>";

        print_r($cars);


        $car2 = array("i10", "i20", "santro");

        echo "<br><h2>Printing the element using looping structure</h2><br>";

        for ($i = 0; $i < count($car2); $i++) {

            echo $car2[$i] . "<br>";

        }

    ?>

</body>

</html>
```

**5- Associative Array**

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Associative Array</title>

</head>

<body>

    <?php

        echo "<h2>Associative Array</h2><br>";

        $cars = array ("Hondacity" => 17.7, "CRV" => 10.3, "Jeep" => 13.3);

        echo var_dump($cars);

        echo "<br><br>";

        foreach ($cars as $key => $value) {

            echo "My $key has $value kilometers milage<br>";

        }

    ?>

</body>

</html>
```

6- 2D Array

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Two Dimentional Array</title>

</head>

<body>

    <?php

        $newArray = array();

        for($i = 0; $i < 3; $i++) {

            $newArray[$i] = array();

            for($j = 0; $j < 3; $j++) {

                $newArray[$i][$j] = rand();

            }

        }

        for($i = 0; $i < count($newArray); $i++) {

            for($j = 0; $j < count($newArray[$i]); $j++){

                echo $newArray[$i][$j] . "***";

            }

            echo "<br><br>";

        }

    ?>

</body>

</html>
```

7- Largest Number 2D Array

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Find the largest among three numbers</title>

</head>

<body>

<form method="post" action="">

<input type="number" name="num1" placeholder="first number" required> <br><br>

<input type="number" name="num2" placeholder="second number" required><br><br>

<input type="number" name="num3" placeholder="third number" required><br><br>

<input type="submit" value="print largest number">

</form>

<?php

if (isset($_POST['num1']) && isset($_POST['num2']) && isset($_POST['num3'])) {

$num1 = $_POST['num1'];

$num2 = $_POST['num2'];
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```
$num3 = $_POST['num3'];

function largest ($a, $b, $c) {

    if ($a >= $b && $a >= $c) {

        echo "The largest number is $a";

    }

    elseif ($b >= $a && $b >= $c) {

        echo "The largest number is $b";

    } else {

        echo "The largest number is $c";

    }

}

echo "<br><br>";

largest ($num1, $num2, $num3);

?>

</body>

</html>
```

8 Factorial

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Factorial Calculation</title>

</head>

<body>

    <h1>Find the Factorial of a Number</h1>

    <form method="post">

        <input type="number" name="num" placeholder="Enter a number" required><br><br>

        <button type="submit" name="submit">Calculate Factorial</button>

    </form>

    <?php

    if (isset($_POST['submit'])) {

        $num = $_POST['num'];

        function factorial($n) {

            if ($n == 0) {

                return 1;

            } else {

                return $n * factorial($n - 1);

            }

        }

        $result = factorial($num);

        echo "<h2>The factorial of $num is: $result</h2>";

    }

    ?>

</body>

</html>
```

9 Factorial

```
<!DOCTYPE html>

<html lang="en">

<head>
```

```
<meta charset="UTF-8">

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

<title>Factorial Calculation</title>

</head>

<body>

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    </form>

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        $num = $_POST['num'];

        function factorial($n) {

            if ($n == 0) {

                return 1;

            } else {

                return $n * factorial($n - 1);

            }

        }

        $result = factorial($num);

        echo "<h2>The factorial of $num is: $result</h2>";

    }

?>

</body>

</html>
```

10 Fibonacci

```
<!DOCTYPE html>

<html>

    <head>

        <title>Fibonacci Series using Recursion</title>

    </head>

    <body>

        <h2>Fibonacci series using recursion</h2>

        <form action="" method="post">

            <label for="n">Enter the number of terms:</label>

            <input type="number" id="n" name="n" required>

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

        </form>

        <?php
        if ($_SERVER["REQUEST_METHOD"] == "POST") {

            $n = $_POST["n"];

            function fibonacci($n) {

                if ($n <= 1) {

                    return $n;

                } else {

                    return fibonacci($n - 1) + fibonacci($n - 2);

                }

            }

            echo "<h3>The Fibonacci series is: </h3>";

            for ($i = 0; $i < $n; $i++) {
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        echo fibonacci($i) . ' ' ;
    }
}
?>

</body>

</html>
```

11 File Upload

```
<!DOCTYPE html>

<html>

<body>

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

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

    <button type="submit" name="submit">Upload</button><br>

</form>

<?php
if (isset($_POST['submit'])) {

    $name = $_FILES['file']['name'];

    $type = $_FILES['file']['type'];

    $tmploc = $_FILES['file']['tmp_name'];

    $error = $_FILES['file']['error'];

    $size = $_FILES['file']['size'];

    $tempext = explode('.', $name);

    $fileexte = strtolower(end($tempext));

    $isallowed = array('pdf', 'png');

    if (in_array($fileexte, $isallowed)) {

        if ($error == 0) {

            if ($size <= 1000000) {

                $newfilename = uniqid("", true) . "." . $fileexte;

                move_uploaded_file($tmploc, $newfilename);

                echo "The file has been successfully uploaded";

            } else {

                echo "Sorry, the file size is too big";

            }

        } else {

            echo "Sorry, an error occurred";

        }

    } else {

        echo "<br>The file type is not accepted";

    }

}

?>

</body>

</html>
```

12 Cookies

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Document</title>

</head>
```

```
<body>

    <?php

date_default_timezone_set(timezoneId:'Asia/kolkata');

if(isset($_COOKIE['lastVisit'])){

    $lastVisit=$_COOKIE['lastVisit'];

    echo "Last Visited :". $lastVisit. "<br>";

}else{

    echo "This is yours first visit!<br>";

}

$currentDateTime=date(format:'Y-m-d H:i:s');

setcookie('lastVisit',$currentDateTime,time()+60*60*24*30);

?>

</body>
```

</html>

13 Session

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Document</title>

</head>

<body>

    <?php

session_start();

if(isset($_SESSION['page_views'])) {

    $_SESSION['page_views'] += 1;

}else {

    echo "user, welcome to my page";

    $_SESSION['page_views'] = 1;

}

echo "You have visted this page ". $_SESSION['page_views']. "Times";

?>

</body>

</html>
```

14 mySql Table creation

```
<!DOCTYPE html>

<html>

<head>

    <title>Student Form</title>

</head>

<body>

    <h2>Enter Student Details</h2>

    <form action="form2.php" method="post">

        <label for="name">Name:</label>

        <input type="text" id="name" name="name" required><br><br>

        <label for="id_number">ID Number:</label>

        <input type="text" id="id_number" name="id_number" required><br><br>

        <label for="phone_number">Phone Number:</label>

        <input type="text" id="phone_number" name="phone_number" required><br><br>

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



</form>

</body>

</html>

<?php

\$servername = "127.0.0.1";

\$username = "root";

\$password = "";

\$dbname = "phplab";

\$conn = new mysqli(\$servername, \$username, \$password, \$dbname);

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

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

}

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

\$id\_number = \$\_POST['id\_number'];

\$phone\_number = \$\_POST['phone\_number'];

\$sql = "INSERT INTO student(name, id\_number, phone\_number)

VALUES ('\$name', '\$id\_number', '\$phone\_number')";

if (\$conn->query(\$sql) === TRUE) {

echo "New record created successfully";

} else {

echo "Error: " . \$sql . "<br>" . \$conn->error;

}

\$conn->close();

?>