Prime Checker

```html
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Prime Number Check</title>

</head>

<body>

<form method="POST" action="">

    <label for="number">Enter a number:</label>

    <input type="text" id="number" name="number">

    <button type="submit">Submit</button>

</form>


<?php

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

    $number = $_POST["number"];

    $isPrime = true;


    if($number < 2){

        $isPrime = false;

    } else {

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

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

                $isPrime = false;

                break; // No need to continue checking once a divisor is found
```

```php
        }

      }

    }


    if($isPrime){

      echo "$number is prime";

    } else {

      echo "$number is not prime";

    }

  }


?>

</body>

</html>
```

Vowel Checker

```html
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <title>Vowel Checker</title>

</head>

<body>

  <div class="checker">

    <form method="POST" action="">

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

      <button type="submit" name="submit">Check Vowel</button><br><br>
```

```php
        </form>

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

            $char = $_POST['character'];

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

                if($char == "a" || $char == "e" || $char == "i" || $char == "o" || $char == "u" ||

                    $char == "A" || $char == "E" || $char == "I" || $char == "O" || $char == "U"){

                    echo "$char is a vowel";

                } else {

                    echo "$char is not a vowel";

                }

            } else {

                echo "Please enter a single alphabetic character.";

            }

        }

        ?>

    </div>

</body>

</html>
```

Indexed Array

```html
<!DOCTYPE html>

<html lang="en">

<head>

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

```php
    <title>Array Example</title>

</head>

<body>

    <h1>Array Example</h1>


    <?php
    // Define an indexed array

    $cars = array("Honda City", "CRV", 23);


    // Print the type and length of the array

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

    echo "<p>";

    var_dump($cars);

    echo "</p>";


    // Print the array using print_r statement

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

    echo "<p>";

    print_r($cars);

    echo "</p>";


    // Define another indexed array

    $cars = array("110", "120", "Santro");


    // Print the elements using a looping structure

    echo "<h2>Printing the elements using a looping structure</h2>";

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

```php
        echo "Car $i is " . $cars[$i] . "<br>";

    }


    ?>

</body>

</html>
```

Associative Arrays

```php
<!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>

    <h1 align = "center">Associative Array</h1>

</head>

<body>

    <?php

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

    var_dump($cars);

    echo"<br><br>";

    echo "<br><h3>Printing the values for each statements</h3>";

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

        echo"mt $key has $value kilometers(s) milege<br>";

    }

    ?>
```

```
</body>

</html>
```

Adding Values 2D Arrays

```html
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>2D Arrays</title>

</head>

<body>

    <?php

    echo "<h1>Adding elements to 2D Array</h1><br>";

    // Initialize a 2D array with random values

    $newarray = [];

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

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

            $newarray[$i][$j] = rand(10, 99);

        }

    }

    // Display the 2D array

    foreach ($newarray as $row) {

        echo implode("**", $row) . "<br><br>";

    }
```

```
    ?>

</body>

</html>
```

Times Table

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Multiplication Table</title>

</head>

<body>

    <h1>Multiplication Table Generator</h1>

    <form method="POST" action="">

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

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

        <button type="submit" name="generate">Generate Table</button>

    </form>

    <?php

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

        $number = $_POST['number'];

        $limit = $_POST['limit'];

        if (is_numeric($number) and is_numeric($limit)) {
```

```php
    echo "<h2>Multiplication Table for $number</h2>";

    //echo "<table>";


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

        $result = $number * $i;

        echo "$number x $i = $result";

        echo "<br>";

    }

    //echo "</table>";

    } else {

        echo "<p>Please enter a valid number.</p>";

    }

}

?>
```

```html
</body>

</html>
```

Max Value Array

```html
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>MAX 2D Arrays</title>

</head>

<body>
```

```php
<form method="POST" action="">

    <label for="2darray">Enter 2D Array (e.g., 1,2,3;4,5,6;7,8,9):</label><br>

    <input type="text" id="2darray" name="2darray" required>

    <button type="submit">Submit</button>

</form>

<?php

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

    $input = $_POST['2darray'];

    $subarrays = explode(";", $input);

    $twoDArray = [];

    foreach ($subarrays as $subarray) {

        $twoDArray[] = array_map('intval', explode(',', $subarray));

    }

    echo "<pre>";

    print_r($twoDArray);

    echo "</pre>";

    $maxValue = PHP_INT_MIN;

    foreach ($twoDArray as $subArr) {

        foreach ($subArr as $value) {

            if ($value > $maxValue) {

                $maxValue = $value;

            }

        }

    }
```

```php
    echo "The maximum value in the 2D array is " . $maxValue;

}

?>
```

</body>

</html>