## 1- Prime Numbers

```html
<!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

```html
<!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">
```

```php
</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**

```html
<!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

```html
<!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

```html
<!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'];
```

```php
$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>
```