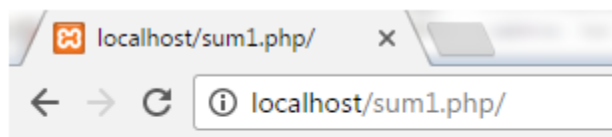# PHP simple program

1.Given program shows the sum of digits of 14597.

```php
<?php
$num = 14597;
$sum=0; $rem=0;
 for ($i =0; $i<=strlen($num);$i++)
{
    $rem=$num%10;
    $sum = $sum + $rem;
    $num=$num/10;
 }
 echo "Sum of digits 14597 is $sum";
 ?>
```

Output:

Sum of digits 14597 is 26

2.Even Odd Program using Form in PHP

```php
<html>
<body>
<form method="post">
      Enter a number:
      <input type="number" name="number">
      <input type="submit" value="Submit">
</form>
</body>
</html>
<?php
      if($_POST){
         $number = $_POST['number'];
         //divide entered number by 2
         //if the reminder is 0 then the number is even otherwise the number is odd
    if(($number % 2) == 0)
    {
    echo "$number is an Even number";
    }
            else{
```
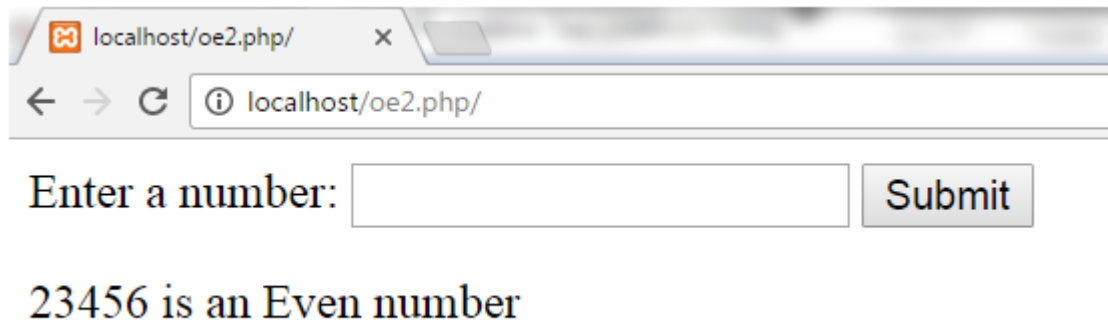
```
                        echo "$number is Odd number";
                }
    }
?>
```
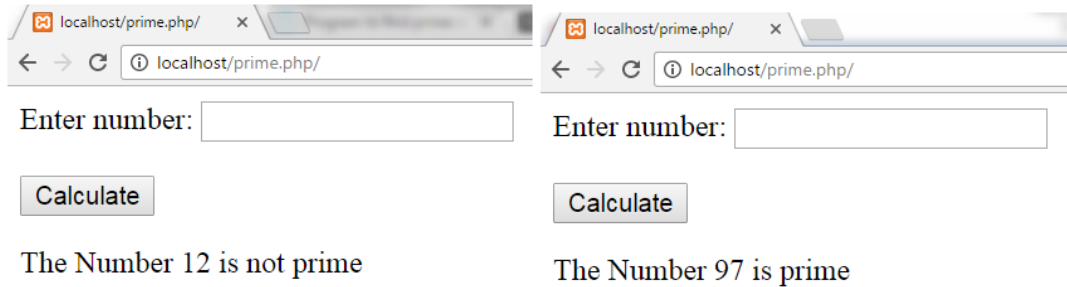
Output:

3.Prime Number using Form in PHP

```html
<html>
<body>
<form method="post">
Enter a Number: <input type="text" name="input"><br><br>
<input type="submit" name="submit" value="Submit">
</form>
</body>  </html>
```

```php
<?php
if($_POST)
{
        $input=$_POST['input'];
        for ($i = 2; $i <= $input-1; $i++) {
        if ($input % $i == 0) {
          $value= True;
          }
     }
if (isset($value) && $value) {
        echo 'The Number '. $input . ' is not prime';
    }  else {
       echo 'The Number '. $input . ' is prime';
       }
}
    ?>
```

The Number 12 is not prime

The Number 97 is prime

4.Factorial using Form in PHP:

```html
<html>
<head>
<title>Factorial Program using loop in PHP</title>
</head>
<body>
<form method="post">
   Enter the Number:<br>
   <input type="number" name="number" id="number">
   <input type="submit" name="submit" value="Submit" />
</form>
<?php
   if($_POST){
      $fact = 1;
      //getting value from input text box 'number'
      $number = $_POST['number'];
      echo "Factorial of $number:<br><br>";
      //start loop
      for ($i = 1; $i <= $number; $i++){
         $fact = $fact * $i;
         }
         echo $fact . "<br>";
   }
?>
</body>
</html>
```
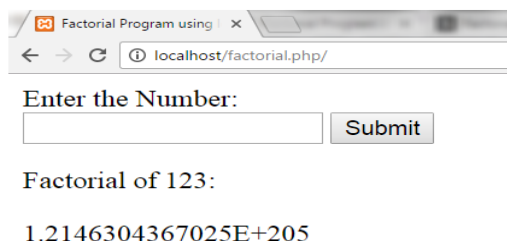
Output:

Enter the Number:

Submit

Factorial of 123:

1.2146304367025E+205

5.Armstrong number using Form in PHP:

```html
<html>
```

```php
<body>
 <form method="post">
 Enter the Number:
   <input type="number" name="number">
   <input type="submit" value="Submit">
  </form>
</body>
</html>
<?php
if($_POST)
{
 //get the number entered
 $number = $_POST['number'];
 //store entered number in a variable
 $a = $number;
 $sum  = 0;
 //run loop till the quotient is 0
 while( $a != 0 )
 {
  $rem   = $a % 10; //find reminder
  $sum   = $sum + ( $rem * $rem * $rem ); //cube the reminder and add it to the sum
 variable till the loop ends
  $a   = $a / 10; //find quotient. if 0 then loop again
 }
 //if the entered number and $sum value matches then it is an armstrong number
 if( $number == $sum )
 {
  echo "Yes $number an Armstrong Number";
 }else
 {
  echo "$number is not an Armstrong Number";
 }
}
?>
```
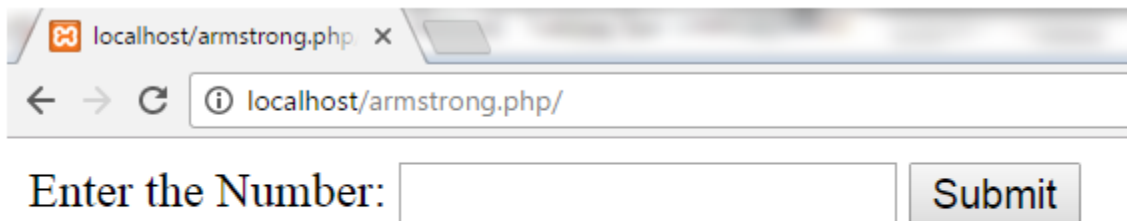
Output:

6.Palindrome Number using Form in PHP

```php
<form method="post">
```

```php
Enter a Number: <input type="text" name="num"/><br>
<button type="submit">Check</button>
</form>
<?php
   if($_POST)
   {
      //get the value from form
      $num = $_POST['num'];
      //reversing the number
      $reverse = strrev($num);

      //checking if the number and reverse is equal
      if($num == $reverse){
         echo "The number $num is Palindrome";
      }else{
         echo "The number $num is not a Palindrome";
      }
   }
      ?>
```
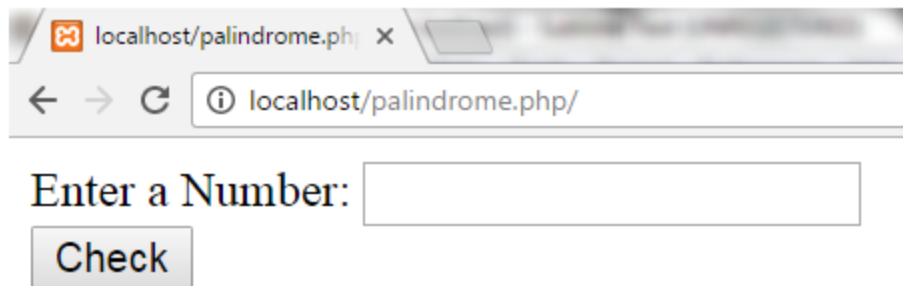
Output:

The number 23432 is Palindrome

7.Fibonacci series using Recursive function

```php
<?php
   /* Print fiboancci series upto 12 elements. */
   $num = 12;
   echo "<h3>Fibonacci series using recursive function:</h3>";
   echo "\n";
   /* Recursive function for fibonacci series. */
   function series($num){
      if($num == 0){
      return 0;
      }else if( $num == 1){
   return 1;
   } else {
```
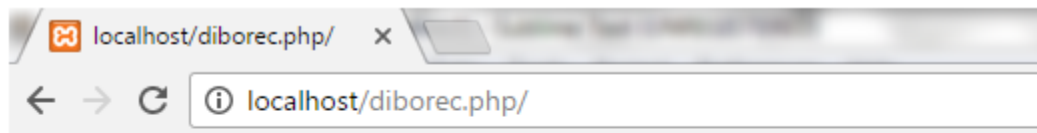
```php
    return (series($num-1) + series($num-2));
    }
    }
    /* Call Function. */
    for ($i = 0; $i < $num; $i++){
    echo series($i);
    echo "\n";
    }
```

Output:

Fibonacci series using recursive function:

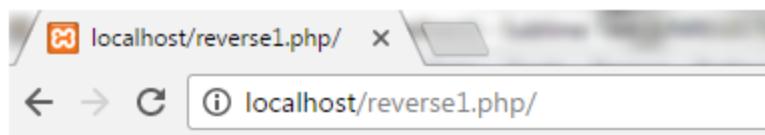0 1 1 2 3 5 8 13 21 34 55 89

8.Reversing Number in PHP

```php
    <?php
    $num = 23456;
    $revnum = 0;
    while ($num > 1)
    {
    $rem = $num % 10;
    $revnum = ($revnum * 10) + $rem;
    $num = ($num / 10);
    }
    echo "Reverse number of 23456 is: $revnum";
    ?>
```
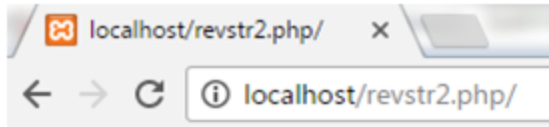

Reverse number of 23456 is: 65432

Reverse String Without using strrev() function:

```php
<?php
$string = "JAVATPOINT";
$length = strlen($string);
for ($i=($length-1) ; $i >= 0 ; $i--)
{
  echo $string[$i];
}
?>
```

localhost/revstr2.php/   ✕

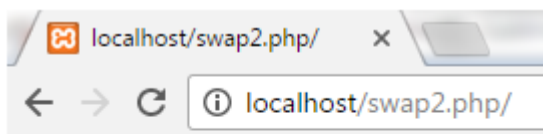← → C ⓘ localhost/revstr2.php/

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9.Swapping Without using Third Variable

```php
<?php
$a=234;
$b=345;
//using arithmetic operation
$a=$a+$b;
$b=$a-$b;
$a=$a-$b;
echo "Value of a: $a</br>";
echo "Value of b: $b</br>";
?>
```

Output:

localhost/swap2.php/   ✕

← → C ⓘ localhost/swap2.php/

Value of a: 345
Value of b: 234

10.Area of Triangle with Form in PHP:

```html
<html>
<body>
<form method = "post">
```

```php
Base: <input type="number" name="base">
<br><br>
Height: <input type="number" name="height"><br>
<input type = "submit" name = "submit" value="Calculate">
</form>
</body>
</html>
<?php
if(isset($_POST['submit']))
    {
$base = $_POST['base'];
$height = $_POST['height'];
$area = ($base*$height) / 2;
echo "The area of a triangle with base as $base and height as $height is $area";
}
?>
```
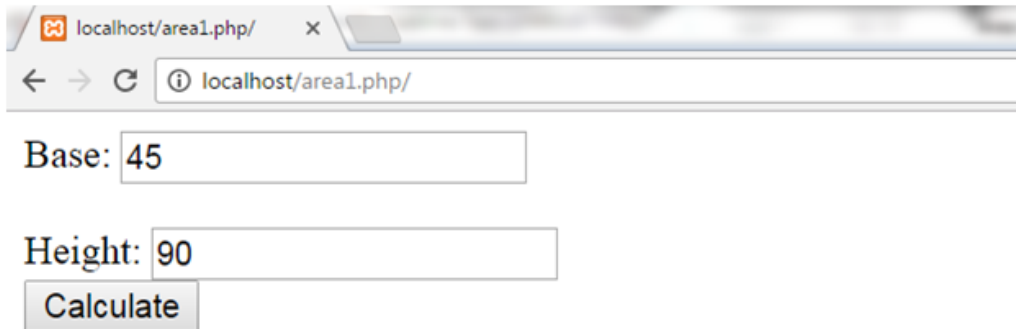
Output:

~~~~~~~~~~ **END** ~~~~~~~~~~~