Write programs in PHP code for the following

1. To find sum of digits of a number.

<?php

$num = 45;

$sum=0; $rem=0;

for ($i =0; $i<=strlen($num);$i++)

{

$rem=$num%10;

$sum = $sum + $rem;

$num=$num/10;

}

echo "Sum of digits 45 is $sum";

?>

1. To check a given number is odd or even is shown.

<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'];

if(($number % 2) == 0){

echo "$number is an Even number";

}else{

echo "$number is Odd number";

}

}

?>

1. To find the factorial of a given number.

<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>";

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

$fact = $fact \* $i;

}

echo $fact . "<br>";

}

?>

</body>

</html>

1. To fin d given number is Armstrong number

<html>

<body>

<form method="post">

Enter the Number:

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

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

</form>

</body>

</html>

<?php

if($\_POST)

{

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

$a = $number;

$sum = 0;

while( $a != 0 )

{

$rem = $a % 10; //find reminder

$sum = $sum + ( $rem \* $rem \* $rem );

$a = $a / 10;

}

//if the entered number and $sum value matches then it is an armstrong number

if( $number == $sum )

{

echo "Yes $number is an Armstrong Number";

}else

{

echo "$number is not an Armstrong Number";

}

}

?>

1. To find a number is palindrome or not

<form method="post">

Enter a Number: <input type="text" name="num"/><br>

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

</form>

<?php

if($\_POST)

{

$number = $\_POST['num'];

//reversing the number

$reverse = strrev($number);

//checking if the number and reverse is equal

if($number == $reverse){

echo "The number $number is Palindrome";

}else{

echo "The number $number is not a Palindrome";

}

}

?>

1. TO find the Fibonacci series

<html>

<body>

<form method="post">

Input the number: <input type="text" name="Number" >

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

</form>

</body>

</html>

<?php

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

$n=$\_POST['Number'];

$number1 = 0;

$number2 = 1;

echo "Fibonacci Series \n";

echo $number1.' '.$number2.' ';

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

$number3= $number1 + $number2;

echo $number3.' ';

$number1 = $number2;

$number2 = $number3;

}

}

?>

Sum of igits

<?php

$num = 145;

$sum=0; $rem=0;

**for** ($i =0; $i<=strlen($num);$i++)

 {

  $rem=$num%10;

   $sum = $sum + $rem;

   $num=$num/10;

  }

 echo "Sum of digits 145 is $sum";

 ?>

Even or odd

<?php

$number=123;

**if**($number%2==0)

{

 echo "$number is Even Number";

}

**else**

{

 echo "$number is Odd Number";

}

?>

Factorial

<?php

$num = 4;

$factorial = 1;

**for** ($x=$num; $x>=1; $x--)

{

  $factorial = $factorial \* $x;

}

echo "Factorial of $num is $factorial";

?>

**Factorial using recursion**

<?php

**function** fact ($n)

{

**if**($n <= 1)

    {

**return** 1;

    }

**else**

    {

**return** $n \* fact($n - 1);

    }

}

echo "Factorial of 6 is " .fact(6);

?>

Armstrong

<?php

$num=407;

$total=0;

$x=$num;

**while**($x!=0)

{

$rem=$x%10;

$total=$total+$rem\*$rem\*$rem;

$x=$x/10;

}

**if**($num==$total)

{

echo "Yes it is an Armstrong number";

}

**else**

{

echo "No it is not an armstrong number";

}

?>

Palindrome

<?php

**function** palindrome($n){

$number = $n;

$sum = 0;

**while**(floor($number)) {

$rem = $number % 10;

$sum = $sum \* 10 + $rem;

$number = $number/10;

}

**return** $sum;

}

$input = 1235321;

$num = palindrome($input);

**if**($input==$num){

echo "$input is a Palindrome number";

} **else** {

echo "$input is not a Palindrome";

}

?>

Fibonacci Series