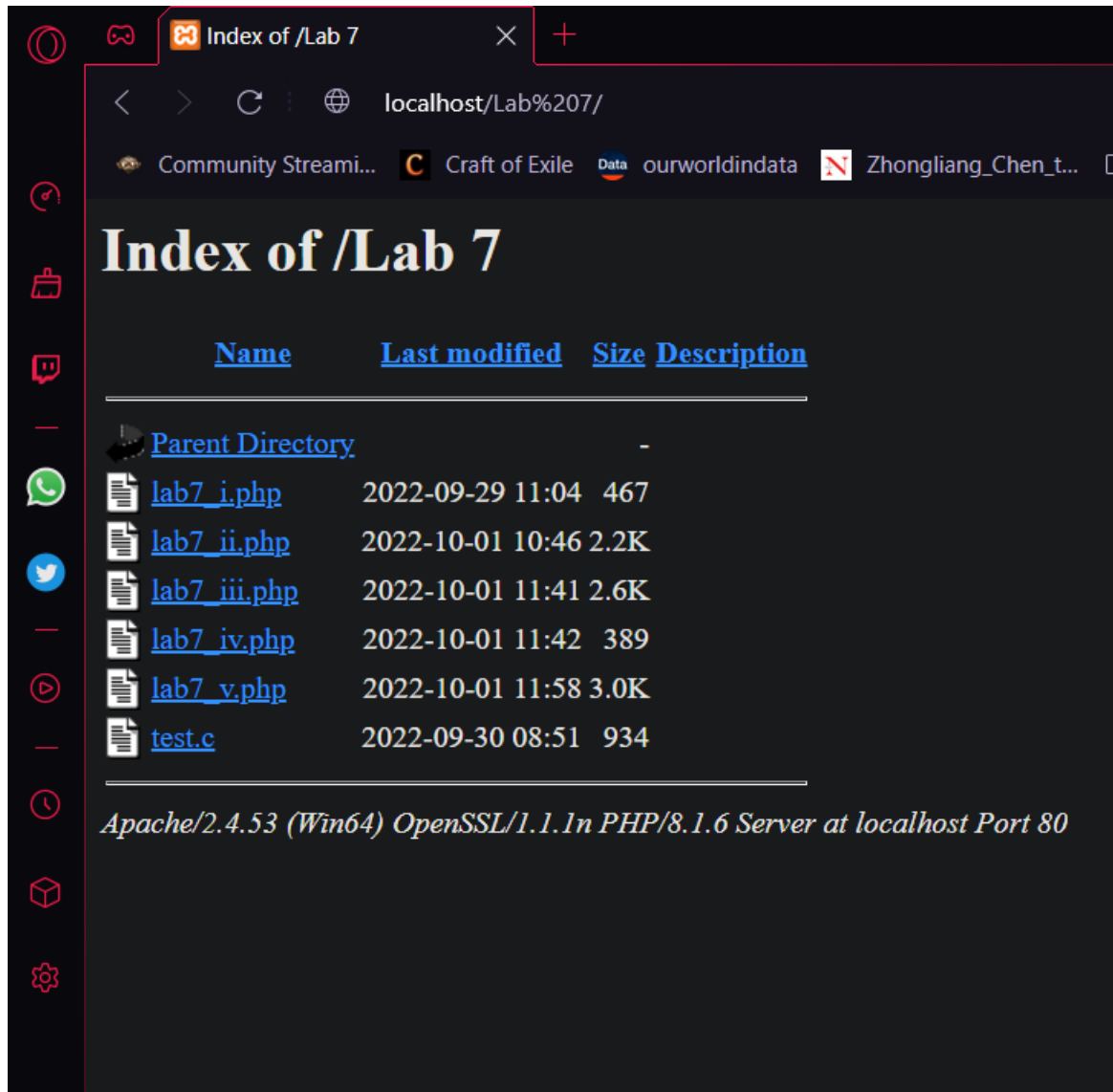


IWP Lab 7

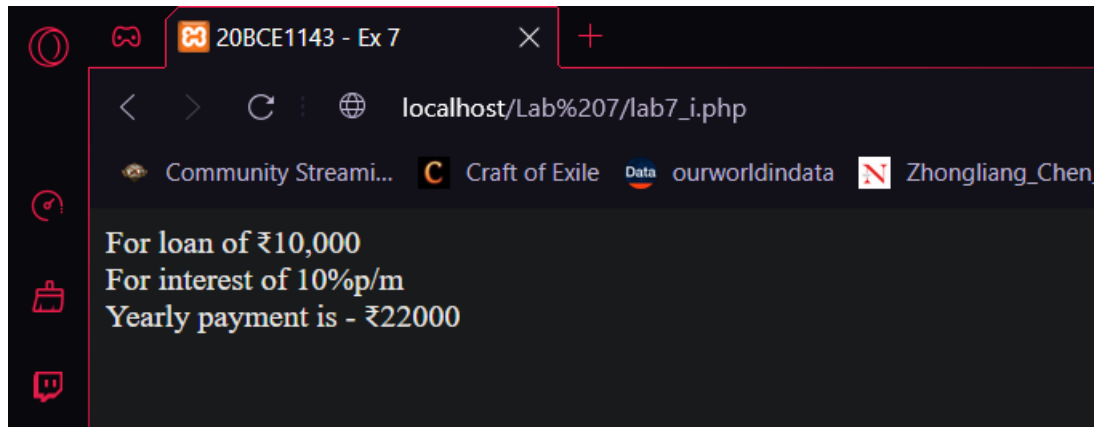
Advait Deochakke

20BCE1143



1. Develop a simple program in PHP, to compute the yearly payment for the following:

Initiate the loan amount of Rs.10000 with an interest of 10% per month in the program and compute the yearly payment. Display the result in a web page.



Code ->

```
<html>
<head>
<title>20BCE1143 - Ex 7</title>
</head>
<body>
<?php
echo "For loan of ₹10,000 <br>For interest of 10%p/m <br>Yearly
payment is - ";
$principal = 10000;
$interest = 0.1;
$amount = 0 + $principal;
for($i = 0; $i < 12; $i++)
{
    $amount = $amount + $interest * $principal;
}
echo "₹$amount<br>";
?>
</body>
</html>
```

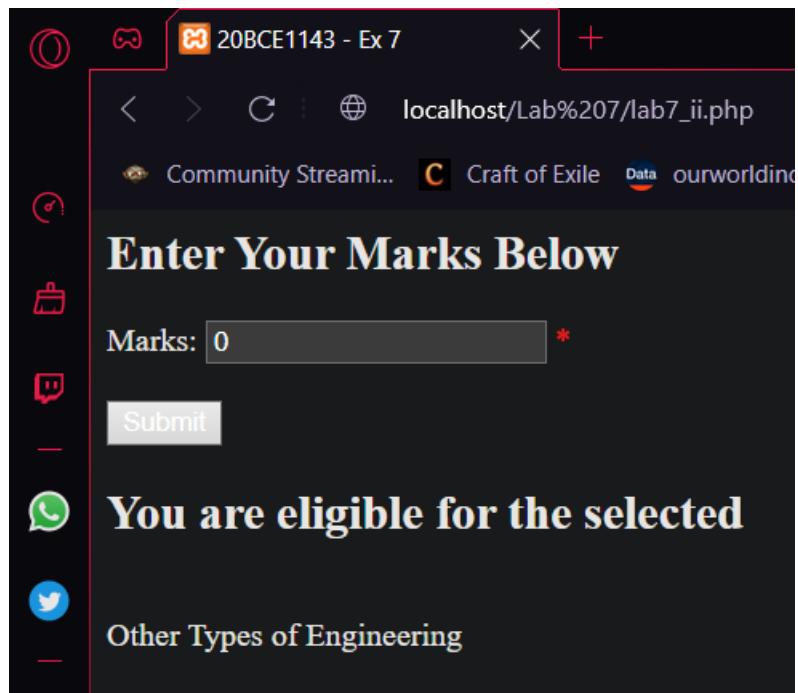
2. Develop a PHP program to allot the branch the student opt in engineering stream based on the entrance exam marks they secured :

If mark ≥ 90 Computer Science Engineering

≥ 80 mark < 90 Mechanical Engineering

≥ 70 mark < 80 Civil Engineering

else eligible for other engineering



20BCE1143 - Ex 7

localhost/Lab%207/lab7_ii.php

Community Streami... Craft of Exile Data ourworldind

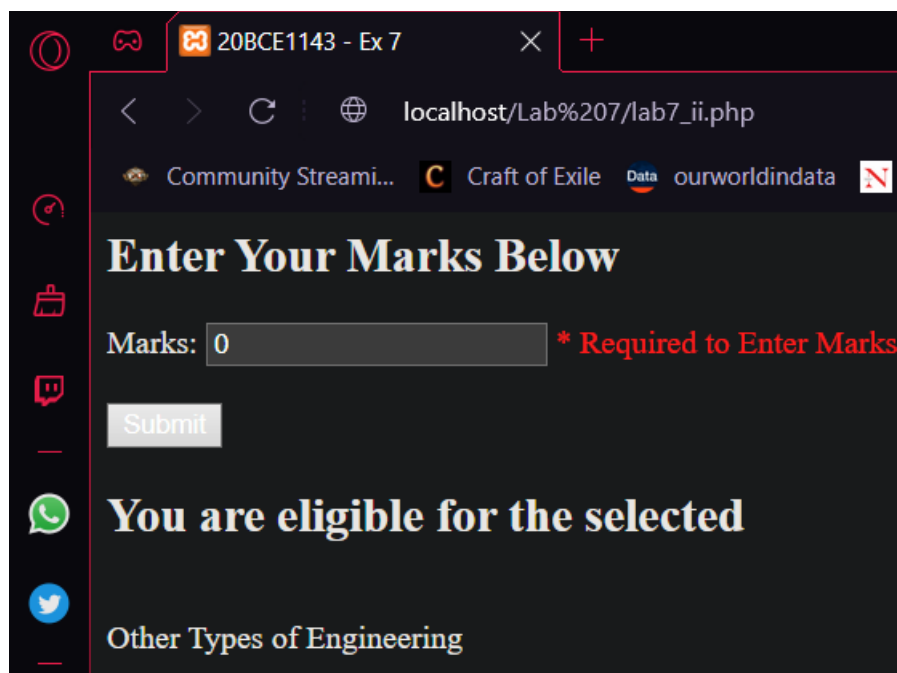
Enter Your Marks Below

Marks: *

Submit

You are eligible for the selected

Other Types of Engineering



20BCE1143 - Ex 7

localhost/Lab%207/lab7_ii.php

Community Streami... Craft of Exile Data ourworldindata N

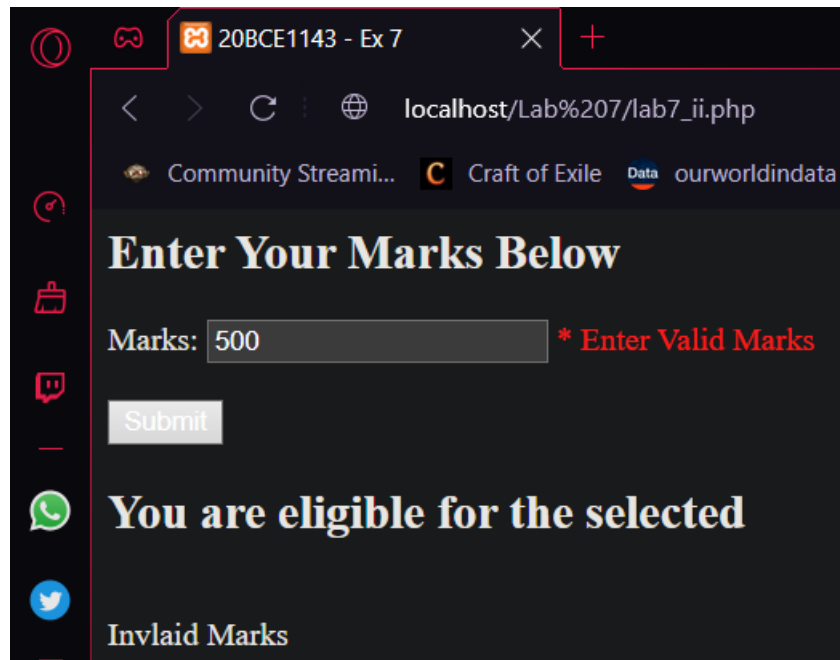
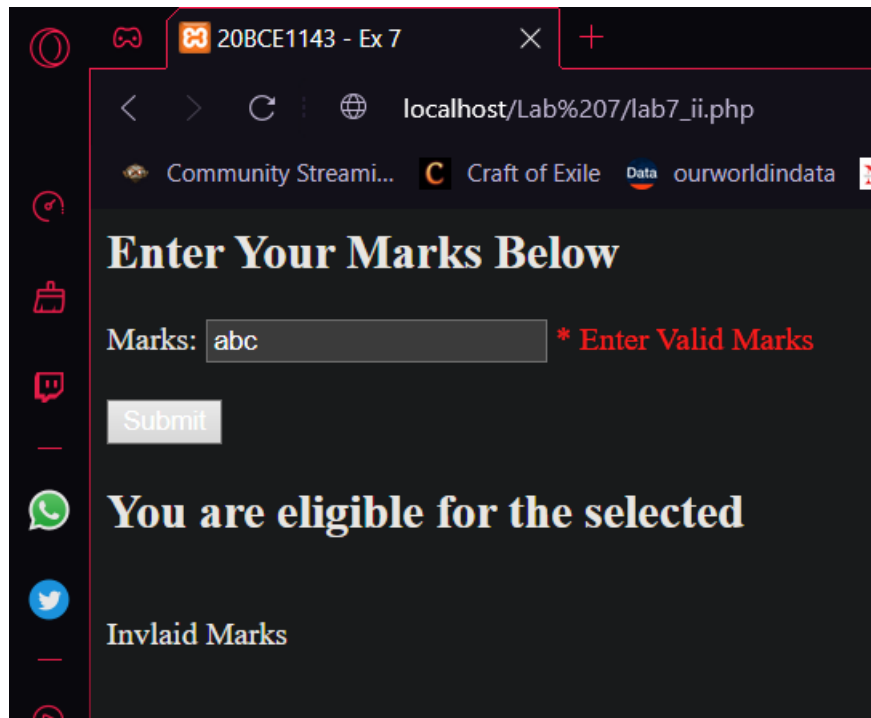
Enter Your Marks Below

Marks: * Required to Enter Marks

Submit

You are eligible for the selected

Other Types of Engineering



20BCE1143 - Ex 7

localhost/Lab%207/lab7_ii.php

Community Streami... Craft of Exile Data ourworldinda

Enter Your Marks Below

Marks:

Submit

You are eligible for the selected

Other Types of Engineering

20BCE1143 - Ex 7

localhost/Lab%207/lab7_ii.php

Community Streami... Craft of Exile Data ourworldinda

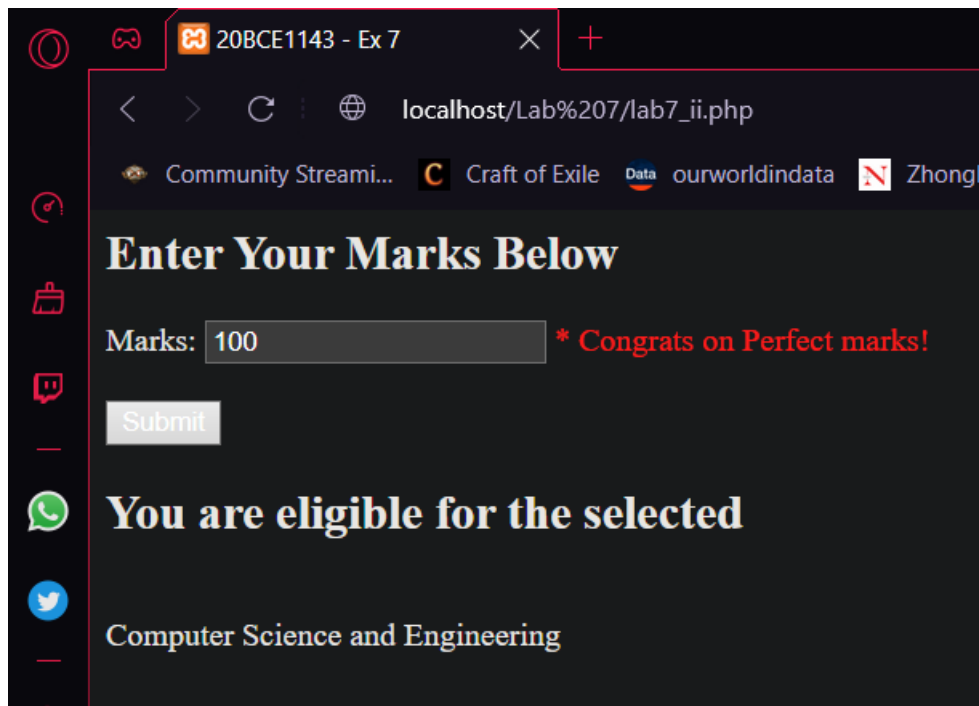
Enter Your Marks Below

Marks:

Submit

You are eligible for the selected

Mechanical Enigeering



Code ->

```
<html>
  <head>
    <title>20BCE1143 - Ex 7</title>
    <style>
      .error
      {
        color:red;
      }
    </style>
  </head>
  <body>
    <?php
      $marksErr = "";
      $marks = 0;
      $validation = 1;
      if($_SERVER["REQUEST_METHOD"] == "POST")
      {
        if (empty($_POST["marks"]))
        {
          $marksErr = "Required to Enter Marks";
        }
        else
        {
          $marks = test_input($_POST["marks"]);
          $valid_marks = "/^[0-9]{1,2}$/";
```

```

        $perfect_marks = "/100/";
        if(preg_match($perfect_marks, $marks))
        {
            $marksErr = "Congrats on Perfect marks!";
        }
        else if(!preg_match($valid_marks, $marks))
        {
            $marksErr = "Enter Valid Marks";
            $validation = 0;
        }
    }
}

```

```

function test_input($data) {
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchars($data);
    return $data;
}

?>
<h2>Enter Your Marks Below</h2>
<form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
    Marks: <input type="text" name="marks" value="<?php echo $marks;?
>">
    <span class="error">* <?php echo $marksErr;?></span>
    <br><br>
    <input type="submit" name="submit" value="Submit">
</form>

```

```

<?php
    echo "<h2>You are eligible for the selected</h2><br>";
    if($validation==0)
        echo "Invlaid Marks<br>";
    else if($marks>=90)
        echo "Computer Science and Engineering<br>";
    else if($marks>=80)
        echo "Mechanical Enigeering<br>";
    else if($marks>=70)
        echo "Civil Engineering<br>";
    else
        echo "Other Types of Engineering<br>";
?>
</body>
</html>

```

3. Given a four digit number 'x', to check whether 'x' is divisible by the sum of the digits of 'x'. A number 'x' is said to be divisible by 'y', if the remainder is zero when 'x' divides 'y'. Develop a PHP program using do...while loop. For example, the number 'x' is 1234 is not divisible by 10, because if we divide '1234' with the sum of its individual digits ($1+2+3+4 = 10$), then the remainder is not zero.

20BCE1143 - Ex 7

localhost/Lab%207/lab7_iii.php

Community Streami... Craft of Exile Data ourworldindata

Enter Your Number Below

We will tell whether it is divisible by the sum of its digit

Number:

Submit

Your Number is :

Indivisible

20BCE1143 - Ex 7

localhost/Lab%207/lab7_iii.php

Community Streami... Craft of Exile Data ourworldindata

Enter Your Number Below

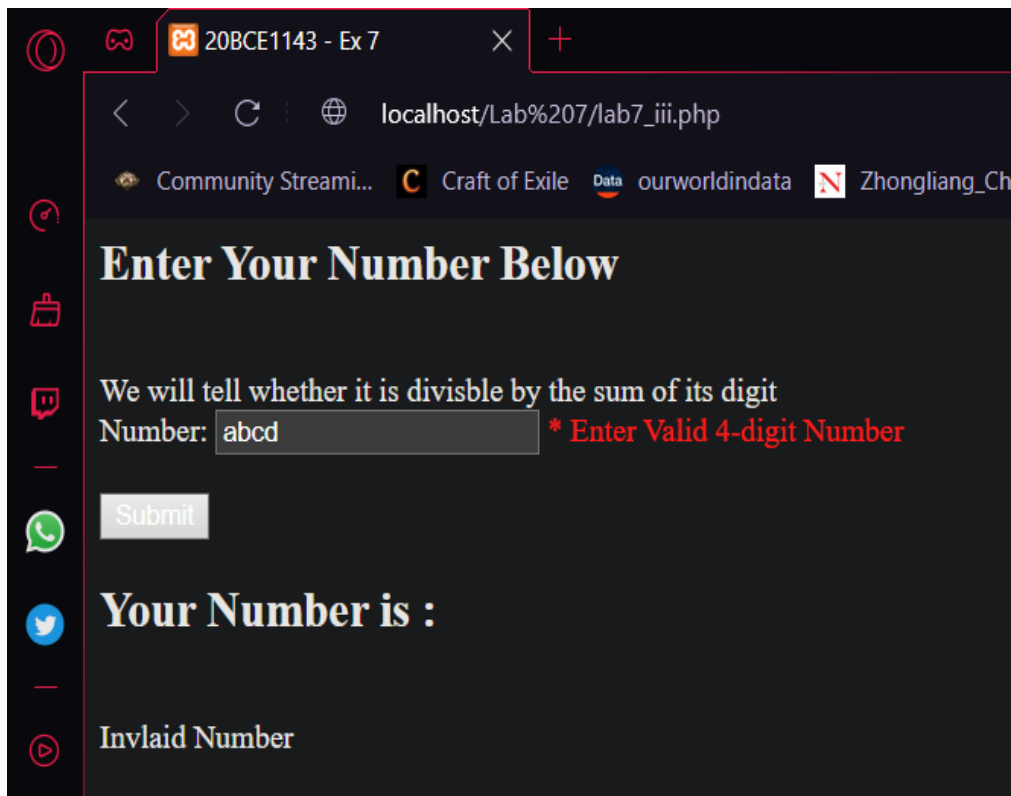
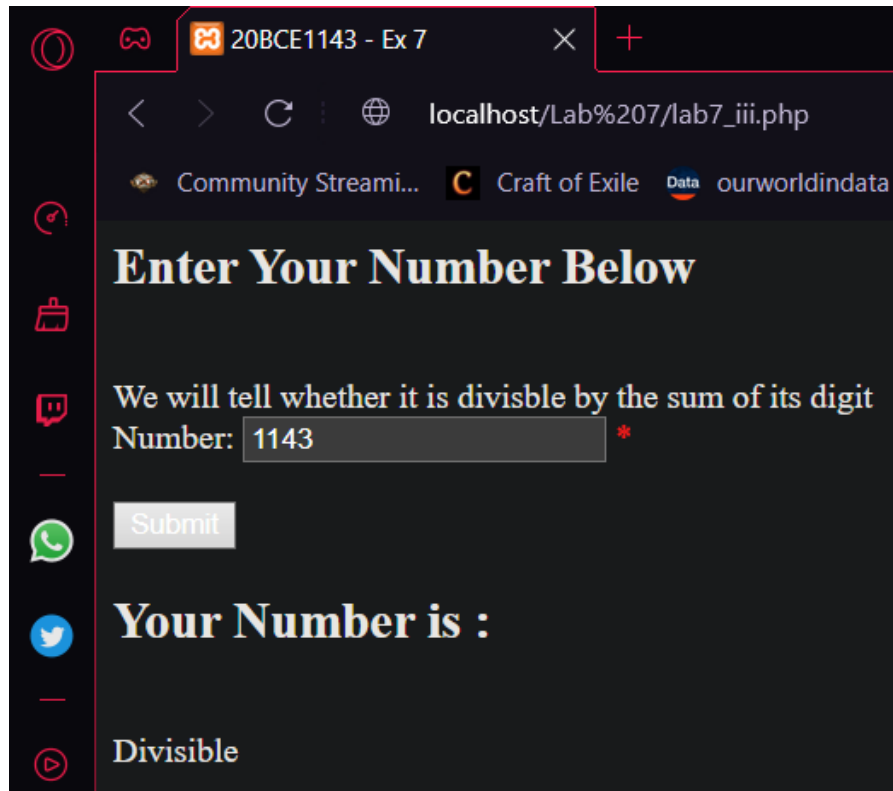
We will tell whether it is divisible by the sum of its digit

Number:

Submit

Your Number is :

Indivisible



Code ->

```
<html>
<head>
<title>20BCE1143 - Ex 7</title>
<style>
.error
{
color:red;
}
</style>
</head>
<body>
<?php
$validation = 1;
$numberErr = "";
$number = 0;
$save = 0;
$sum = 0;
if($_SERVER["REQUEST_METHOD"] == "POST")
{
if (empty($_POST["number"]))
{
$numberErr = "Required to Enter Marks";
$save = $number;
}
else
{
$number = test_input($_POST["number"]);
$valid_number = "/^\d{4}$/";
if(!preg_match($valid_number, $number))
{
$numberErr = "Enter Valid 4-digit Number";
$validation = 0;
}
if($validation == 1)
{
$save = $number;
$i=0;
do
{
$sum = $sum + $number%10;
$number = ($number-$number%10)/10;
$i++;
}
while($i<4);
if(($save%$sum)==0)
{

```

```

        $validation = 2;
    }
}
}
}
}
}

```

```

function test_input($data) {
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchars($data);
    return $data;
}
?>

```

```

<h2>Enter Your Number Below</h2><br>
We will tell whether it is divisble by the sum of its digit<br>
<form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
    <!-- we can also use HTML Pattern attribute for form -->
    Number: <input type="text" name="number" value="<?php echo $save;?
>" title="Four digit number">
    <span class="error">* <?php echo $numberErr;?></span>
    <br><br>
    <input type="submit" name="submit" value="Submit">
</form>

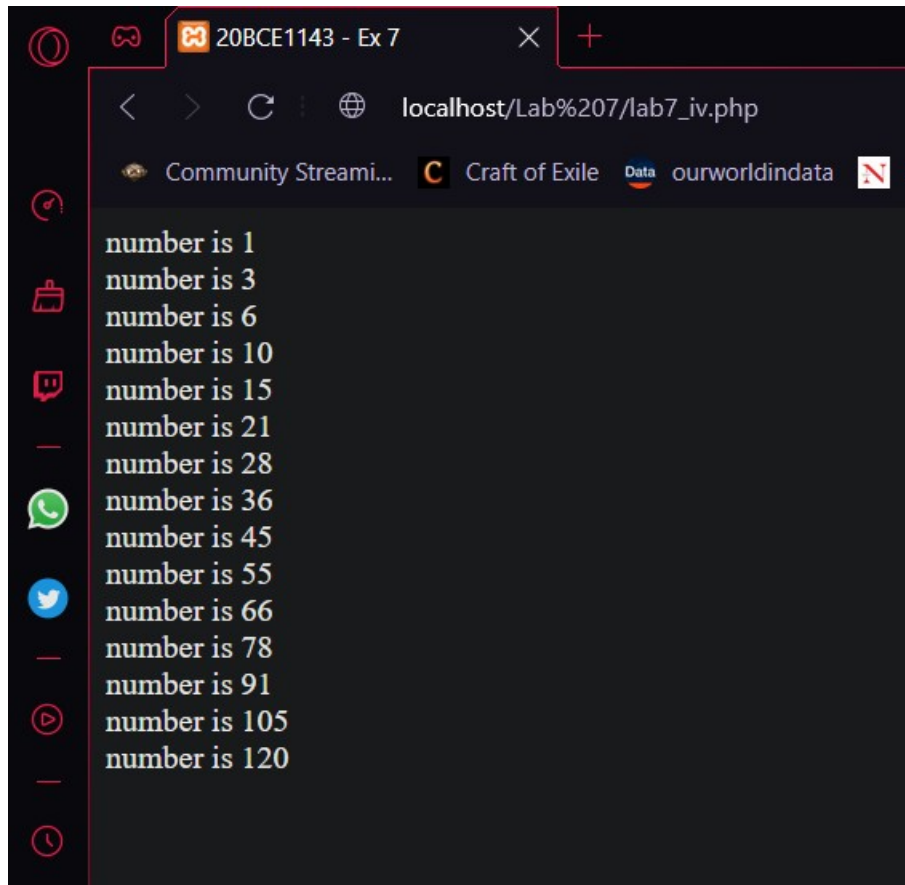
```

```

<?php
    echo "<h2>Your Number is : </h2><br>";
    if($validation==0)
        echo "Invlaid Number<br>";
    else if($validation==1)
        echo "Indivisible<br>";
    else
        echo "Divisible<br>";
    ?>
</body>
</html>

```

4. A sequence generator generates number from 1. The new number generated is equal to sum of number previously generated and index of the number generated. That is for n^{th} number, n is the index and it is equal to $(n-1)^{\text{th}}$ number in sequence + n . 1, 1+2, 3+3, 6+4, 10+5, 15 + 6, Develop a php program to determine the n^{th} number that will be generated by the sequence generator. Use do while loop in php.



Code ->

```
<html>
  <head>
    <title>20BCE1143 - Ex 7</title>
  </head>
  <body>
    <?php
      $myArr = array(1);
      $i=0;
      do
      {
        $myArr[$i+1]=$myArr[$i]+$i+1+1;
        echo "number is ".$myArr[$i]."<br>";
        $i++;
      }
      while($i<15);
```

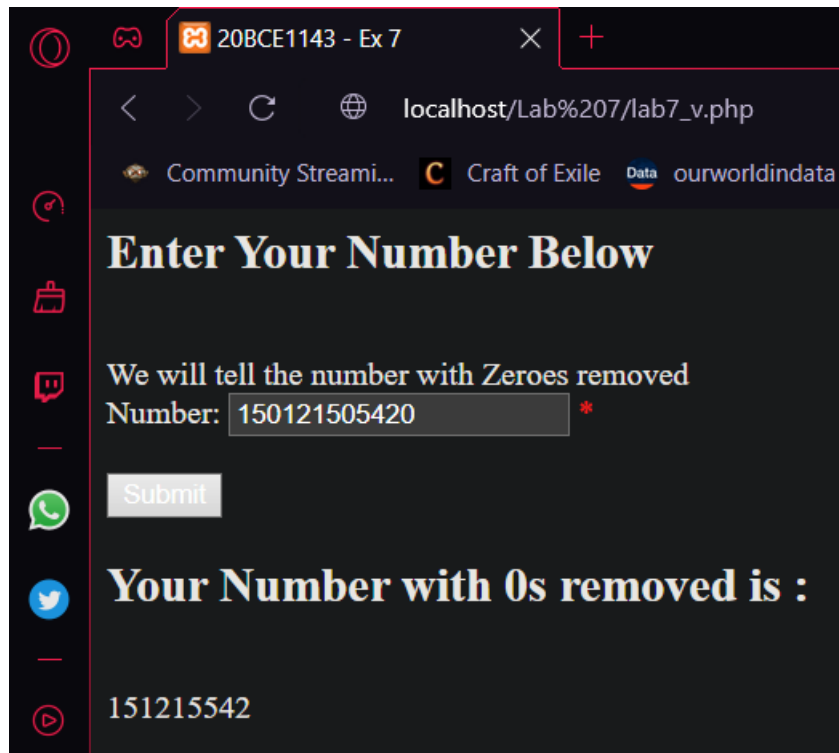
```
?>  
</body>  
</html>
```

that will be generated by the sequence generator code as while loop in php.

5. Develop a PHP program to remove zeros from the given number and display the result in a web page. For example, if the number is 102005 then desired output is 125.
(Note: Initiate the input as 102005 in the program)

The screenshot shows a web browser window with the address bar displaying 'localhost/Lab%207/lab7_v.php'. The page has a dark background with white text. The main heading is 'Enter Your Number Below'. Below this, a message says 'We will tell the number with Zeroes removed'. There is a text input field labeled 'Number:' containing the value '0'. To the right of the input field is a red asterisk '*'. Below the input field is a 'Submit' button. Underneath the button, the text 'Your Number with 0s removed is :' is displayed, followed by the output '0'.

This screenshot shows the same web browser window as the previous one, but with the number '102005' entered in the 'Number:' input field. The 'Submit' button is still present. Below the button, the text 'Your Number with 0s removed is :' is displayed, followed by the output '125'.



Code ->

```
<html>
  <head>
    <title>20BCE1143 - Ex 7</title>
    <style>
      .error
      {
        color:red;
      }
    </style>
  </head>
  <body>
    <?php
      $validation = 1;
      $numberErr = "";
      $number = 0;
      $save = 0;
      $og = 0;
      if($_SERVER["REQUEST_METHOD"] == "POST")
      {
        if (empty($_POST["number"]))
        {
          $numberErr = "Required to Enter Marks";
```

```

        $og = $number;
    }
    else
    {
        $number = test_input($_POST["number"]);
        $valid_number = "/^\d*$/";
        if(!preg_match($valid_number, $number))
        {
            $numberErr = "Enter Valid Number";
            $validation = 0;
            $og=$number;
        }
        if($validation == 1)
        {
            $og=$number;
            $cur_size=1;
            do
            {
                $whether_zero = $number%10;
                $addendum=0;
                if($whether_zero!=0)
                {
                    $tenpow = pow(10,$cur_size);
                    $addendum = ($number%10)*$tenpow;
                    $save = $save + $addendum;
                    $number = ($number-$number%10)/10;
                    $cur_size++;
                }
            }
            else
            {
                $number = ($number-$number%10)/10;
            }
        }
        while($number!=0);
        $save=$save/10;
    }
}
}
}

```

```

function test_input($data) {
    $data = trim($data);
    $data = stripslashes($data);
    $data = htmlspecialchars($data);
    return $data;
}
?>

```

```

<h2>Enter Your Number Below</h2><br>
We will tell the number with Zeroes removed<br>
<form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">

```

```
<!-- we can also use HTML Pattern attribute for form -->
Number: <input type="text" name="number" value="<?php echo $og;?>"
title="Any digit number">
    <span class="error">* <?php echo $numberErr;?></span>
    <br><br>
    <input type="submit" name="submit" value="Submit">
</form>
```

```
<?php
    echo "<h2>Your Number with 0s removed is : </h2><br>";
    if($validation==0)
        echo "Invlaid Number<br>";
    else if($validation==1)
        echo "$save<br>";
    else
        echo "$save<br>";
?>
</body>
</html>
```