1. Write a PHP program to calculate all prime numbers between 1 to 100?

```
=><?php
$limit = 100;
$init = 2;

while(TRUE)
{
      $div = 2;
      if($init > $limit)
      {
            break;
      }
      while(TRUE)
      {
            if($div > sqrt($init))
            {
                  echo $init."  ";
                  break;
            }
            if($init % $div == 0)
            {
                  break;
            }
            $div = $div + 1;
      }
      $init = $init + 1;
}
?>
```

Output:
3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97

1. Write a PHP program to check whether a given number is Armstrong number or not

```
=>  <?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";
}
?>
```

Output:

Yes it is an Armstrong number

3. Write a PHP program to sort given list of numbers

```
=><!DOCTYPE html>
<html>
<body>

<?php
$numbers = array(4, 6, 2, 22, 11);
sort($numbers);
$arrlength = count($numbers);
for($x = 0; $x < $arrlength; $x++) {
  echo $numbers[$x];
  echo "<br>";
}
?>
</body>
</html>
```

Output:
2
4
6
11
22

4. Write a PHP program to demonstrate a recursive function to print the factorial of a given number.

```
=><?php
function fact ($n)
{
    if($n <= 1)
    {
        return 1;
    }
    else
    {
        return $n * fact($n - 1);
    }
}

echo "Factorial of 6 is " .fact(6);
?>
```

Output:

Factorial of 6 is 720

5. Write a PHP program to reverse a given String.

```
=<?php


function Reverse($str){


    $len = strlen($str);

    // Base case for recursion
    if($len == 1){
        return $str;
    }
    else{
```

```
        $len--;


        return Reverse(substr($str,1, $len))
                        . substr($str, 0, 1);
    }
}

$str = "SukdebSahu";
print_r(Reverse($str));

?>
```

Output:

uhaSbedkuS

6. Write a PHP program to take input into an array and display the highest number

```
=> <?php
// Returns maximum in array
function getMax($array)
{
   $n = count($array);
   $max = $array[0];
   for ($i = 1; $i < $n; $i++)
       if ($max < $array[$i])
           $max = $array[$i];
    return $max;
}

// Returns maximum in array
function getMin($array)
{
   $n = count($array);
   $min = $array[0];
   for ($i = 1; $i < $n; $i++)
       if ($min > $array[$i])
           $min = $array[$i];
    return $min;
}

// Driver code
$array = array(1, 2, 3, 4, 5);
echo(getMax($array));
echo("\n");
echo(getMin($array));
?>
```

Output:

5

7. Write a PHP Program to demonstrate associative array using for each() loop

```
=> <?php

// Declare an associative array
$aso_arr = array(
    "Up"=>"North",
    "Down"=>"South",
    "Left"=>"West",
    "Right"=>"East"
);

// Use foreach loop to traverse each
// elements of array and display its
// key and value
foreach($aso_arr as $side=>$direc) {
    echo $side . " => " . $direc . "\n";
}
```

```
?>
```

Output:

Up => North Down => South Left => West Right => East

8. Write a PHP program to take upload a file with the HTML form

```
<!DOCTYPE html>
<html>
<body>

<form action="upload.php" method="post" enctype="multipart/form-data">
  Select image to upload:
  <input type="file" name="fileToUpload" id="fileToUpload">
  <input type="submit" value="Upload Image" name="submit">
</form>
</body>
</html>
<?php
$target_dir = "uploads/";
$target_file = $target_dir . basename($_FILES["fileToUpload"]["name"]);
$uploadOk = 1;
$imageFileType = strtolower(pathinfo($target_file,PATHINFO_EXTENSION));
// Check if image file is a actual image or fake image
if(isset($_POST["submit"])) {
  $check = getimagesize($_FILES["fileToUpload"]["tmp_name"]);
  if($check !== false) {
    echo "File is an image - " . $check["mime"] . ".";
    $uploadOk = 1;
  } else {
    echo "File is not an image.";
    $uploadOk = 0;
  }
}
?>
```

Output:

Select image to upload: Choose File No file chosen Upload Image

Warning: Undefined array key "fileToUpload" in **C:\xampp\htdocs\learn_php\php_lab\temp1.php** on line **15**

Warning: Trying to access array offset on value of type null in **C:\xampp\htdocs\learn_php\php_lab\temp1.php** on line **15**

9.Write a PHP program to open and read a file

```
<html>

   <head>
      <title>Reading a file using PHP</title>
   </head>

   <body>

      <?php
         $filename = "tmp.txt";
         $file = fopen( $filename, "r" );

         if( $file == false ) {
            echo ( "Error in opening file" );
            exit();
         }

         $filesize = filesize( $filename );
         $filetext = fread( $file, $filesize );
         fclose( $file );

         echo ( "File size : $filesize bytes" );
         echo ( "<pre>$filetext</pre>" );
      ?>

   </body>
</html>
```

Output:

The following example creates a new text file then writes a short text heading inside it. After closing this file its existence is confirmed using

10.Write a PHP program to connect MYSQL database and print table rows

```php
<?php
/* Attempt MySQL server connection. Assuming you are running MySQL
server with default setting (user 'root' with no password) */
$link = mysqli_connect("localhost", "root", "", "demo");

// Check connection
if($link === false){
    die("ERROR: Could not connect. " . mysqli_connect_error());
}

// Attempt select query execution
$sql = "SELECT * FROM persons";
if($result = mysqli_query($link, $sql)){
    if(mysqli_num_rows($result) > 0){
        echo "<table>";
            echo "<tr>";
                echo "<th>id</th>";
                echo "<th>first_name</th>";
                echo "<th>last_name</th>";
                echo "<th>email</th>";
            echo "</tr>";
        while($row = mysqli_fetch_array($result)){
            echo "<tr>";
                echo "<td>" . $row['id'] . "</td>";
                echo "<td>" . $row['first_name'] . "</td>";
                echo "<td>" . $row['last_name'] . "</td>";
                echo "<td>" . $row['email'] . "</td>";
            echo "</tr>";
        }
        echo "</table>";
        // Free result set
        mysqli_free_result($result);
    } else{
        echo "No records matching your query were found.";
    }
} else{
    echo "ERROR: Could not able to execute $sql. " . mysqli_error($link);
}

// Close connection
mysqli_close($link);
?>
```

Output:

```
+----+------------+-----------+----------------------+
| id | first_name | last_name | email                |
+----+------------+-----------+----------------------+
|  1 | Peter      | Parker    | peterparker@mail.com |
|  2 | John       | Rambo     | johnrambo@mail.com   |
|  3 | Clark      | Kent      | clarkkent@mail.com   |
|  4 | John       | Carter    | johncarter@mail.com  |
|  5 | Harry      | Potter    | harrypotter@mail.com |
+----+------------+-----------+----------------------+
```

11. Write a PHP program to connect MYSQL database and input values into MYSQL table using HTML Forms.

```
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>Contact Form - PHP/MySQL Demo Code</title>
</head>

<body>
<fieldset>
<legend>Contact Form</legend>
<form name="frmContact" method="post" action="contact.php">
<p>
<label for="Name">Name </label>
<input type="text" name="txtName" id="txtName">
</p>
<p>
<label for="email">Email</label>
<input type="text" name="txtEmail" id="txtEmail">
</p>
<p>
<label for="phone">Phone</label>
<input type="text" name="txtPhone" id="txtPhone">
</p>
<p>
<label for="message">Message</label>
<textarea name="txtMessage" id="txtMessage"></textarea>
</p>
<p> </p>
<p>
<input type="submit" name="Submit" id="Submit" value="Submit">
</p>
</form>
</fieldset>
</body>
</html>
<?php
$con = mysqli_connect('localhost', 'root', '','db_contact');
// get the post records
$txtName = $_POST['txtName'];
$txtEmail = $_POST['txtEmail'];
$txtPhone = $_POST['txtPhone'];
$txtMessage = $_POST['txtMessage'];
// database insert SQL code
$sql = "INSERT INTO `tbl_contact` (`Id`, `fldName`, `fldEmail`, `fldPhone`, `fldMessage`) VALUES ('0', '$txtName', '$txtEmail', '$txtPhone',
'$txtMessage')";
// insert in database
$rs = mysqli_query($con, $sql);
if($rs)
{
  echo "Contact Records Inserted";
}
?>
```

OUTPUT:

12 .Write a PHP program to connect MYSQL database and Delete values into MYSQL table using HTML Forms.

```php
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = mysqli_connect($servername, $username, $password, $dbname);
// Check connection
if (!$conn) {
  die("Connection failed: " . mysqli_connect_error());
}
// sql to delete a record
$sql = "DELETE FROM MyGuests WHERE id=3";
if (mysqli_query($conn, $sql)) {
  echo "Record deleted successfully";
} else {
  echo "Error deleting record: " . mysqli_error($conn);
}
mysqli_close($conn);
?>
```

Outut:

id	firstname	lastname	email	reg_date
1	John	Doe	john@example.com	2014-10-22 14:26:15
2	Mary	Moe	mary@example.com	2014-10-23 10:22:30
3	Julie	Dooley	julie@example.com	2014-10-26 10:48:23

After deleting the data from a database:

id	firstname	lastname	email	reg_date
1	John	Doe	john@example.com	2014-10-22 14:26:15
2	Mary	Moe	mary@example.com	2014-10-23 10:22:30