1	Write a PHP script to show the use of Control statement.

Code	<pre><html>
	  <head>
	    <title>Control statements</title>
	  </head>
	  <body>
	
	      <h1>Control Statements</h1>
	      <div>
	        <h3>For Loop</h3>
	    <?php
	      echo "Used of For Loop in multiplication table of 10.
";
	      $a=10;
	      for($i=1;$i<=10;$i++)
	      {
	        echo $a."*".$i."=".$i*$a ."
";
	      }
	    ?>
	      </div>
	      <div>
	        <h3>While Loop</h3>
	        <?php
	        echo "Used of While Loop in multiplication table of 20.
";
	        $i=1;
	        $j=20;
	        while($i<=10)
	        {
	
	          echo $j."*".$i."=".$i*$j ."
";
	          $i++;
	        }
	        ?>
	      </div>
	      <div>
	        <h3>Do While Loop</h3>
	        <?php
	        echo "Used of Do While Loop in multiplication table of 30.
";
	        $i=1;
	        $j=30;
	        do{
	          echo $j."*".$i."=".$i*$j ."
";
	          $i++;
	        }
	        while($i<=10);
	        ?>
	      </div>
	    </body>
	</html></pre>

Ouput :

Control Statements

For Loop

Used of For Loop in multiplication table of 10.
10*1=10
10*2=20
10*3=30
10*4=40
10*5=50
10*6=60
10*7=70
10*8=80
10*9=90
10*10=100

While Loop

Used of While Loop in multiplication table of 20.
20*1=20
20*2=40
20*3=60
20*4=80
20*5=100
20*6=120
20*7=140
20*8=160
20*9=180
20*10=200

Do While Loop

Used of Do While Loop in multiplication table of 30.
30*1=30
30*2=60
30*3=90
30*4=120
30*5=150
30*6=180
30*7=210
30*8=240
30*9=270
30*10=300

2	Write a PHP script to show the use of Conditional statement.
| Code | ```php
<!DOCTYPE html>
<html>
   <head><title>Conditional Statements</title></head>
<form method="post">
   <div>
   <h1>Conditional Statements</h1>
   </div>
   <div>
   <label>Enter the first number </label>
   <input type="number" name="num1" value="First"><br>
   </div>
   <div>
   <label>Enter the second number </label>
   <input type="number" name="num2" value="Second"><br>
   </div>
   <div>
   <input type="submit" value="Submit">
   </div>
</form>
<div>
<?php
   $number1=$_POST['num1'];
   $number2=$_POST['num2'];
   if($number1 == $number2)
   {
      echo $number1." and ".$number2 ."are equals";
   }
   elseif($number1 > $number2)
   {
      echo $number1." is greater than ". $number2;
   }
   else{
      echo $number1." is less than ".$number2;
   }
   ?>
</div>
</html>
``` |
| Ouput : | |

3.	Wrtie a PHP script to show the use of various types of array with foreach loop.
Code	(see code below)

```
<!DOCTYPE html>
<head>
  <title>Arrays</title>
</head>
<body>
  <div>
  <h1>Simple Array</h1>
  <?php
    $fruits=array("Apple","Banana","Cherry","Mango","lemone","Orange");
    print_r($fruits);
    echo "<br>";

    foreach ($fruits as $fruit)
    {
      echo "$fruit<br>";
    }

  ?>
  </div>
  <div>
    <h1>2D or Multidimensional Arrays</h1>
    <?php
    $arr=array(array(10,20,30),array(40,50,60),array(70,80,90));
    print_r($arr);
    echo "<br>";
    $keys =array_keys($arr);
    for($i=0;$i<count($arr);$i++)
    {
      echo "<br>";
      foreach ($arr[$keys[$i]] as $values ) {
        echo $values ." ";
      }
    }
  ?>
  </div>
  <div>
    <h1>Associative Type Array</h1>
    <?php


$student=array("stud_id"=>1001,"stud_name"=>"Saurav","age"=>21,"course"=>"MCA");
    print_r($student);
    echo "<br>";
    echo "<table border=1>";
    echo "<tr>";
    foreach ($student as $key => $value) {
      echo "<tr><td>$key</td><td>$value</td></tr>";
      // echo "<td>$value</td>";
      // echo $key ." => ".$value. "<br>";
    }
```

	echo "</tr>"; echo "</table>"; ?> </div> </body> </html>
Ouput :	localhost/Pratices php/pra3.php **Simple Array** Array ([0] => Apple [1] => Banana [2] => Cherry [3] => Mango [4] => lemone [5] => Orange) Apple Banana Cherry Mango lemone Orange **2D or Multidimensional Arrays** Array ([0] => Array ([0] => 10 [1] => 20 [2] => 30) [1] => Array ([0] => 40 [1] => 50 [2] => 60) [2] => Array ([0] => 70 [1] => 80 [2] => 90)) 10 20 30 40 50 60 70 80 90 **Associative Type Array** Array ([stud_id] => 1001 [stud_name] => Tejas [age] => 21 [course] => MCA) stud_id — 1001 stud_name — Saurav age — 21 course — MCA

4.	Write a PHP script to show the use of PHP array and PHP string functions.

Code	```
	<!DOCTYPE html>
	<head>
	    <title>PHP String & Array functions</title>
	</head>
	<body>
	  <div>
	  <h1>String Functions</h1>
	  </div>
	  <div>
	      <h4>1. strtolower()</h4>
	  <?php
	    echo "'strlower()' function return a string in lower case.
	";
	    $str = "THIS FUNCTION CAN RETURN A UPPERCASE IN TO LOWERCASE.
	";
	    $str=strtolower($str);
	    echo $str;
	  ?>
	  </div>
	  <h4>2. strupper()</h4>
	  <div>
	      <?php
	    echo "'strupper()' function return a string in UpperCase .
	";
	    $str="This function can return a Lowercase letter in to Uppercase.";
	    $str=strtoupper($str);
	    echo $str;
	      ?>
	  </div>
	  <div>
	      <h4>3. strlen()</h4>
	      <?php
	        $str= "'strlen()' function return a length of string.";
	        echo $str."
	";
	        $str=strlen($str);
	        echo "The total char in string is $str .";
	      ?>
	  </div>
	  <div>
	      <h4>4. strrev()</h4>
	      <?php
	    $str="'strrev()' function return reversed string.";
	    echo $str."
	";
	    $str=strrev($str);
	    echo $str;
	      ?>
	  </div>
	  <div>
	      <h4>5. ucwords()</h4>
	      <?php
	        $str="'ucwords()' function return string converting first character of each word into
	uppercase .";
	          echo $str."
	";
	``

```php
        $str=ucwords($str);
        echo $str;
    ?>
</div>
<div>
  <h4>6. str_split()</h4>
    <?php
      $str="Hello PHP";
      print_r(str_split($str,3));
    ?>
</div>
<div>
  <h4>7. str_word_count()</h4>
  <?php
    $str="PHP Javatpoint";
    echo "Your string is:".$str;
    echo "<br>";
    echo "By using str_word_count(): ".str_word_count($str);
  ?>
</div>
<div>
  <h4>8. wordwrap()</h4>
  <?php
    $string1 = "Congratulations! to all";
    $width = 8;
    $break = "</br>";
    echo wordwrap($string1, $width, $break);
  ?>
</div>
<div>
  <h4>9. substr_count()</h4>
  <?php
    $strin = "Good Health Good Life";
    $sub_str = "Good";
    echo "A total sub string is : ";
    echo substr_count($strin, $sub_str);
  ?>
</div>
<div>
  <h4>10. substr()</h4>
  <?php
    echo substr("Hello PHP", 3). "</br>";
    echo substr("Hello PHP", 0). "</br>";
    echo substr("Hello PHP", -4). "</br>";
    echo substr("Hello World in PHP", -10). "</br>";
  ?>
</div>
<div>
  <h1>Array Functions</h1>
</div>
<div>
```

```php
      <h4>1. array()</h4>
      <?php
        $strarray=array("string","integer","float","array","null");
        echo "'array() function to create an array.<br>'";
        foreach($strarray as $values)
        {
          echo "$values \t";
        }
      ?>
  </div>
  <div>
    <h4>2. count()</h4>
    <?php
      $strarray=array("string","integer","float","array","null");
      echo "'count()' function return a total number of elements in array.<br>";
      echo $num=count($strarray)." elements in array : ";
      foreach($strarray as $values)
      {
        echo "$values \t";
      }
    ?>
  </div>
  <div>
    <h4>3. sort()</h4>
    <?php
    $strarray=array("string","integer","float","array","null");
    sort($strarray);
    foreach($strarray as $s)
    {
      echo $s."\t";
    }
    ?>
  </div>
  <div>
    <h4>4. array_reverse() function</h4>
    <?php
      $season=array("summer","winter","spring","autumn");
      $reverseseason=array_reverse($season);
      foreach( $reverseseason as $s )
      {
      echo "$s<br />";
      }
    ?>
  </div>
  <div>
    <h4>5. array_search() function</h4>
      <?php
        $season=array("summer","winter","spring","autumn");
        $key=array_search("spring",$season);
        echo $key;
      ?>
```

```
      </div>
      <div>
        <h4>6.array_intersect() function </h4>
          <?php
          $name1=array("sonoo","john","vivek","smith");
          $name2=array("umesh","sonoo","kartik","smith");
          $name3=array_intersect($name1,$name2);
          foreach( $name3 as $n )
          {
          echo "$n<br />";
          }
          ?>
      </div>
      <div>
      <h4>7.array_change_key_case()</h4>
          <?php
            $salary=array("Sonoo"=>"550000","Vimal"=>"250000","Ratan"=>"200000");
            print_r(array_change_key_case($salary,CASE_UPPER));
          ?>
      </div>
      <div>
        <h4>8. array_chunk() function</h4>
        <?php
          $salary=array("Sonoo"=>"550000","Vimal"=>"250000","Ratan"=>"200000");
          print_r(array_chunk($salary,2));
        ?>
      </div>
    </body
>
</html>
```

String Functions

1. strtolower()

'strlower()' function return a string in lower case.
this function can return a uppercase in to lowercase.

2. strupper()

'strupper()' function return a string in UpperCase .
THIS FUNCTION CAN RETURN A LOWERCASE LETTER IN TO UPPERCASE.

3. strlen()

'strlen()' function return a length of string.
The total char in string is 46 .

4. strrev()

'strrev()' function return reversed string.
.gnirts desrever nruter noitcnuf ')(verrts'

5. ucwords()

'ucwords()' function return string converting first character of each word into uppercase .
'ucwords()' Function Return String Converting First Character Of Each Word Into Uppercase .

Array Functions

1. array()

'array() function to create an array.
'string integer float array null

2. count()

'count()' function return a total number of elements in array.
5 elements in array : string integer float array null

3. sort()

array float integer null string

4. array_reverse() function

autumn
spring
winter
summer

5. array_search() function
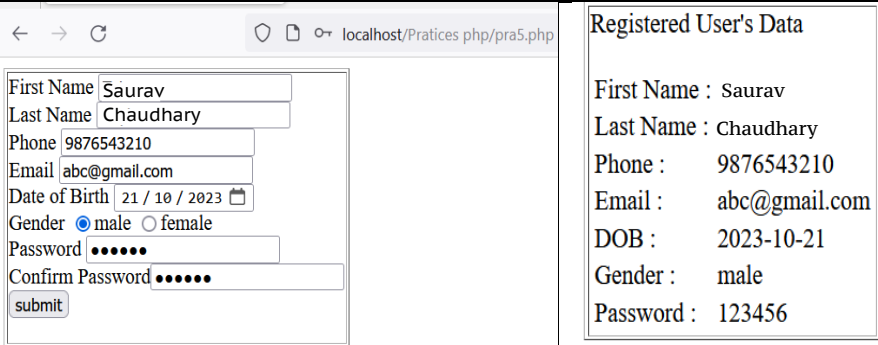
2

6.array_intersect() function

sonoo
smith

5.	Write a PHP script to show the use of superglobal array with Registration Form.
Code	

```
<!DOCTYPE html>
<head>
  <title>Registration Page</title>
</head>
<body>
  <div>
    <table border=1>
      <tr><td>
    <form method="post" action="<?php echo $_SERVER['PHP_SELF'];?>">
      <div>
        <label for="fname">First Name </label><input type="text" name="fname"
required>
      </div>
      <div>
        <label for="lname">Last Name </label><input type="text" name="lname"
required>
      </div>
      <div>
        <label for="phone">Phone </label><input type="text" name="phone" required>
      </div>
      <div>
        <label for="email">Email </label><input type="email" name="email" required>
      </div>
      <div>
        <label>Date of Birth </label><input type="date" name="dob" required>
      </div>
      <div>
        <label for="gender">Gender</label>
        <input type="radio" name="gen" value="male" required><label>male </label>
        <input type="radio" name="gen" value="female" required><label>female</label>
      </div>
      <div><div>
        <label for="password">Password </label><input type="password" name="pass"
required>
      </div>
      <div>
        <label for="cpass">Confirm Password</label><input type="password"
name="cpass" required>
      </div>
      <div>
        <button type="submit">submit</button>
      </div>
      <div>
        <br/>
      </div>
    </form>
</td>
</tr>
</table>
  <?php
```

```php
        if($_SERVER["REQUEST_METHOD"]=="POST")
        {
        $fname = htmlspecialchars($_REQUEST['fname']);
        $lname = htmlspecialchars($_REQUEST['lname']);
        $phone = htmlspecialchars($_REQUEST['phone']);
        $email = htmlspecialchars($_REQUEST['email']);
        $dob = htmlspecialchars($_REQUEST['dob']);
        $gender = htmlspecialchars($_REQUEST['gen']);
        $password = htmlspecialchars($_REQUEST['pass']);
        if(empty ($fname & $lname & $phone & $email & $dob & $gender & $password ))
        {
           echo "Fields are empty !";
        }
        else
        {
           echo "<table border=1";
           echo "<tr><td>";
           echo "Registered User's Data <br><br>";
           echo "<table>";
           echo "<tr><td>First Name :</td><td>$fname</td>";
           echo "<tr><td>Last Name :</td><td>$lname</td>";
           echo "<tr><td>Phone :</td><td>$phone</td>";
           echo "<tr><td>Email :</td><td>$email</td>";
           echo "<tr><td>DOB :</td><td>$dob</td>";
           echo "<tr><td>Gender :</td><td>$gender</td>";
           echo "<tr><td>Password :</td><td>$password</td>";
           echo "</td></td>";
           echo "</table>";

        }
      }
      ?>
    </div>
  </body>
</html>
```

Output:		

6.	Build a Registration page with Validation and display data in next page using HTML Table

Code	`<!DOCTYPE html>`
	`<html lang="en">`
	`<head>`
	`  <meta charset="UTF-8">`
	`  <meta name="viewport" content="width=device-width, initial-scale=1.0">`
	`  <title>Registration</title>`
	` </head>`
	
	`<body>`
	`  <div><h1>Registration Form</h1></div>`
	`  <div>`
	`    <form action="next.php" method="post" class="form">`
	`      <div>`
	`        <label>First name :</label><input type="text" name="firstname" required>`
	`      </div>`
	`      <div>`
	`        <label>Last Name</label><input type="text" name="lastname" required>`
	`      </div>`
	`      <div>`
	`        <label>Email</label><input type="email" name="email" required>`
	`      </div>`
	`      <div>`
	`        <label>Phone</label><input type="text" name="phone" required pattern=".{10,}" title="Enter 10 digits only !">`
	`      </div>`
	`      <div>`
	`        <label>Date of Birth </label><input type="date" name="dob" value="DOB" required>`
	`      </div>`
	`      <div>`
	`        <label>Gender</label>`
	`        <input type="radio" name="gen" value="male" required><label>male</label>`
	`        <input type="radio" name="gen" value="female" required><label>female</label>`
	`      </div>`
	`      <div>`
	
	`        <div>`
	`          <label>password</label><input type="password" name="pass" id="password" required pattern=".{6,}" title="Enter minimum 6 char. !">`
	`        </div>`
	`        <div>`
	`          <label>confirm password</label><input type="password" name="cpass" id="cpass" required pattern=".{6,}">`
	`        </div>`
	`        <script>`
	`          var pass=document.getElementById("password"),cpass=document.getElementById("cpass");`
	`          function validatePassword()`

```
                    {
                        if(pass.value != cpass.value)
                        {
                            cpass.setCustomValidity("password not match !");
                        }
                        else
                        {
                            cpass.setCustomValidity('');
                        }
                    }
                    pass.onchange=validatePassword;
                    cpass.onkeyup=validatePassword;
                </script>
            </div>
            <div>
                <input type="submit" value="Submit">
            </div>
        </form>
    </div>
</body>
</html>
```

Output:

Registration Form

First name : Saurav
Last Name Chaudhary
Email saurav@gmail.com
Phone 9876543210
Date of Birth 21 / 10 / 2023
Gender ◉ male ○ female
password ••••••
confirm password ••••••
[Submit]

Field Name	Field Data
First Name	Saurav
Last Name	Chaudhary
email	saurav@gmail.com
phone	9876543210
DOB	2023-10-21
Gender	male
password	123abc

7.	Build a Login and Logout page to show the use of include, session and cookie function.

Code	**Index.php**
	``php
	<?php
	        session_start();
	        include('conn.php');
	?>
	<!DOCTYPE html>
	<html>
	<head>
	<title>Login Using Cookie with Logout</title>
	</head>
	<body>
	         Login Form
	        <form method="POST" action="login.php">
	        <label>Username:</label> <input type="text" value="<?php if
	(isset($_COOKIE["user"])){echo $_COOKIE["user"];}?>" name="username">
	        <label>Password:</label> <input type="password" value="<?php if
	(isset($_COOKIE["pass"])){echo $_COOKIE["pass"];}?>" name="password">
	
	        <input type="checkbox" name="remember" <?php if (isset($_COOKIE["user"])
	&& isset($_COOKIE["pass"])){ echo "checked";}?>> Remember me
	
	        <input type="submit" value="Login" name="login">
	        </form>
	
	
	        <?php
	                if (isset($_SESSION['message'])){
	                        echo $_SESSION['message'];
	                }
	                unset($_SESSION['message']);
	        ?>
	
	</body>
	</html>
	``

	Conn.php
	``php
	<?php
	$conn = mysqli_connect("localhost","root","","cookie");
	
	// Check connection
	if (mysqli_connect_errno())
	  {
	  echo "Failed to connect to MySQL: " . mysqli_connect_error();
	  }
	
	?>
	<html>
	   <header>This php script used a include , session or cookies function...</header>
	</html>
	``

	Login.php
	``php
	<?php
	        if(isset($_POST['login'])){
	``

```php
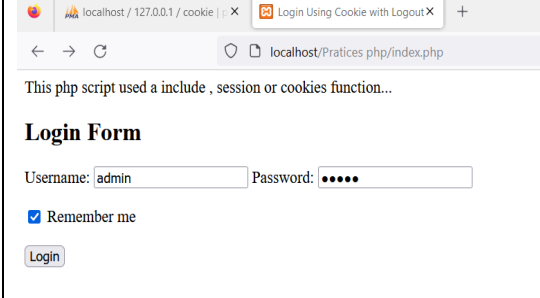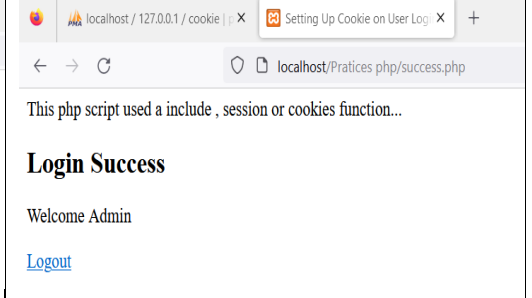            session_start();
            include('conn.php');

            $username=$_POST['username'];
            $password=$_POST['password'];

            $query=mysqli_query($conn,"select * from `user` where
username='$username' && password='$password'");

            if (mysqli_num_rows($query) == 0){
                    $_SESSION['message']="Login Failed. User not Found!";
                    header('location:index.php');
            }
            else{
                    $row=mysqli_fetch_array($query);

                    if (isset($_POST['remember'])){
                            //set up cookie
                            setcookie("user", $row['username'], time() + (86400 *
30));

                            setcookie("pass", $row['password'], time() + (86400 *
30));
                    }
        $_SESSION['id']=$row['userid'];
                    header('location:success.php');
            }
        }
        else{
                header('location:index.php');
                $_SESSION['message']="Please Login!";
        }
?>
```

Success.php

```php
<?php
        session_start();

        if (!isset($_SESSION['id']) ||(trim ($_SESSION['id']) == '')) {
                header('index.php');
                exit();
        }
        include('conn.php');
        $query=mysqli_query($conn,"select * from user where
userid='".$_SESSION['id']."'");
        $row=mysqli_fetch_assoc($query);
?>
<!DOCTYPE html>
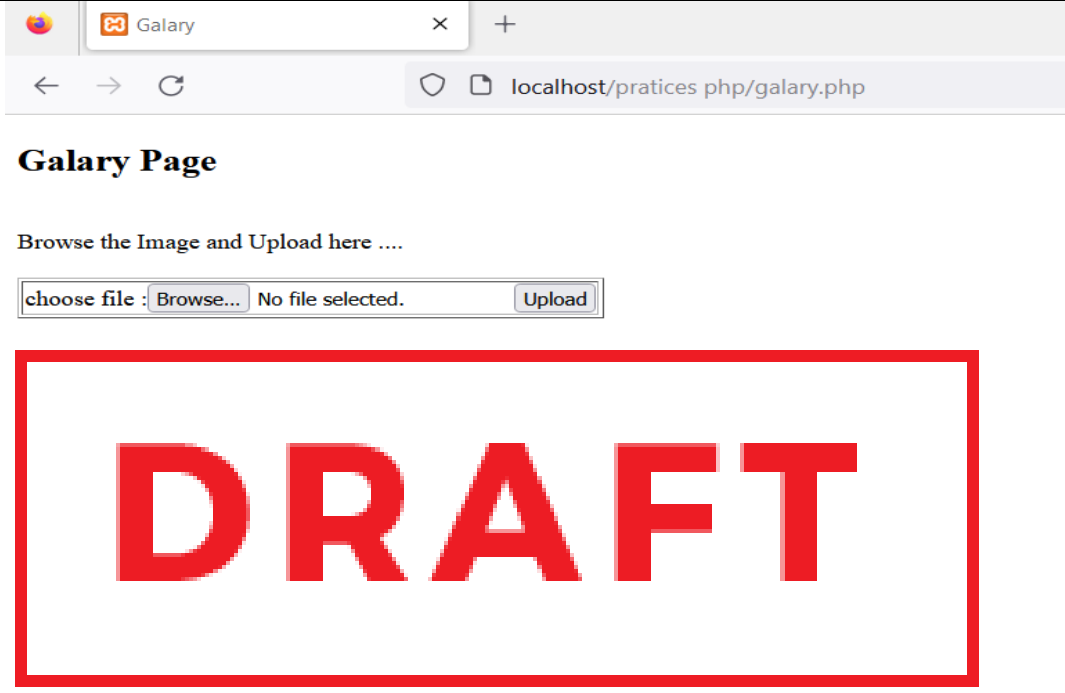<html>
<head>
<title>Setting Up Cookie on User Login</title>
</head>
```

<table>
<tr><td></td><td>

```
<body>
        <h2>Login Success</h2>
        <?php echo "Welcome ", $row['fullname']; ?>
        <br><br>
    <div>
        <a  href="logout.php">Logout</a>
    </div>
</body>
</html>
```

</td></tr>
<tr><td></td><td>

Logout.php
```
<?php
        session_start();
        session_destroy();

        if (isset($_COOKIE["user"]) AND isset($_COOKIE["pass"])){
                setcookie("user", '', time() - (3600));
                setcookie("pass", '', time() - (3600));
        }
        header('location:index.php');
?>
```

</td></tr>
<tr><td>Output</td><td>

This php script used a include , session or cookies function...

Login Form

Username: admin   Password: ●●●●●

☑ Remember me

[Login]

This php script used a include , session or cookies function...

Login Success

Welcome Admin

Logout

</td></tr>
</table>

Saurav Chaudhary   23034211064

8.	Build a Feedback page and store data into database.

Code	```html
	<!DOCTYPE html>
	<html>
	  <head>
	    <title>Feedback</title>
	  </head>
	<body>
	  <form method="post" action="p8.php">
	  <div >
	   ---Feedback Form---
	  </div>
	
	  <div>
	  Name : <input type="text" name="name">
	  </div>
	  <div>
	  E-mail: <input type="text" name="email">
	  </div>
	  <div>
	   <div>
	  <p>What do you think about the quality of our blog?</p>
	    <input type="radio" name="quality" value="0"> Bad
	
	    <input type="radio" name="quality" value="1"> Okay
	
	    <input type="radio" name="quality" value="2"> Good
	
	  </div>
	
	  <div>
	   Do you have any suggestion for us?
	
	  <textarea name="comment" rows="5" cols="40"></textarea>
	  </div>
	</div>
	    <input type="submit" value="Submit">
	  </form>
	  </body>
	  </html>
	``

	Db.php
	``php
	<?php
	$conn = new PDO("mysql:host=localhost;dbname=prepared", 'root', '');
	?>
	``

	``php
	<?php
	$name=$_POST['name'];
	$contact=$_POST['phone'];
	$email = $_POST['email'];
	$message = $_POST['comment'];
	$conn = mysqli_connect("localhost", "root","", "prepared");
	$query ="insert into feedback(name, contact,email,sugg)values('$name',
	'$contact','$email', '$message')";
	``

| | ```php
$result = mysqli_query($conn, $query);
if($result)
  echo 'Thank you for your feedback. We\'ll appreciate!';
else
die("Something terrible happened. Please try again. ");
?>
``` |
| Output : | |

9.	Build a Gallery Page and show the use of PHP Retrieve/Update / Delete using prepared statement
Code:	**Upload.php**

```php
<?php
  if(isset($_FILES['image']) && $_FILES['image']['error'] == 0) {
    $name = $_FILES['image']['name'];
    $type = $_FILES['image']['type'];
    $data = file_get_contents($_FILES['image']['tmp_name']);

    $pdo = new PDO('mysql:host=localhost;dbname=prepared', 'root', '');

    $stmt = $pdo->prepare("INSERT INTO galary(name, type, data) VALUES (?, ?, ?)");
    $stmt->bindParam(1, $name);
    $stmt->bindParam(2, $type);
    $stmt->bindParam(3, $data);
    $stmt->execute();
  }
?>
```

Display.php

```php
<?php
  $id = $_GET['id'];
  $pdo = new PDO('mysql:host=localhost;dbname=prepared', 'root', '');
  // retrieve the image data from the database
  $stmt = $pdo->prepare("SELECT name, type, data FROM galary WHERE id=?");
  $stmt->bindParam(1, $id);
  $stmt->execute();
  // set the content type header
  header("Content-Type: image/jpeg");
  // output the image data
  $row = $stmt->fetch(PDO::FETCH_ASSOC);
  echo $row['data'];
?>
```

Galary.php

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Galary</title>
</head>
<body>
  <div>
    <h2>Galary Page</h2>
  </div>
  <div>
    <br>
  </div>
  <div>Browse the Image and Upload here ....</div>
  <div><br></div>
<form method="post" action="upload.php" enctype="multipart/form-data">
  <table border=1>
```

```
        <tr>
          <td>
    choose file :<input type="file" name="image" />
     <input type="submit" name="submit" value="Upload" />
            </td></tr>
        </table>
    </form>
       <div>
          <br>
       <img src="display.php?id=1" width="600" height="450"/>
       </div>
    </body>
    </html>
```

Output :

10	Write a Laravel code for CRUD operations.

Code	**Database.php**
	
	 ``php
	<?php
	use Illuminate\Support\Str;
	return [
	    'default' => env('DB_CONNECTION', 'mysql'),
	
	    'connections' => [
	
	        'sqlite' => [
	            'driver' => 'sqlite',
	            'url' => env('DATABASE_URL'),
	            'database' => env('DB_DATABASE', database_path('database.sqlite')),
	            'prefix' => '',
	            'foreign_key_constraints' => env('DB_FOREIGN_KEYS', true),
	        ],
	
	        'mysql' => [
	            'driver' => 'mysql',
	            'url' => env('DATABASE_URL'),
	            'host' => env('DB_HOST', '127.0.0.1'),
	            'port' => env('DB_PORT', '3306'),
	            'database' => env('DB_DATABASE', 'forge'),
	            'username' => env('DB_USERNAME', 'forge'),
	            'password' => env('DB_PASSWORD', ''),
	            'unix_socket' => env('DB_SOCKET', ''),
	            'charset' => 'utf8mb4',
	            'collation' => 'utf8mb4_unicode_ci',
	            'prefix' => '',
	            'prefix_indexes' => true,
	            'strict' => true,
	            'engine' => null,
	            'options' => extension_loaded('pdo_mysql') ? array_filter([
	                PDO::MYSQL_ATTR_SSL_CA => env('MYSQL_ATTR_SSL_CA'),
	            ]) : [],
	        ],
	
	        'pgsql' => [
	            'driver' => 'pgsql',
	            'url' => env('DATABASE_URL'),
	            'host' => env('DB_HOST', '127.0.0.1'),
	            'port' => env('DB_PORT', '5432'),
	            'database' => env('DB_DATABASE', 'forge'),
	            'username' => env('DB_USERNAME', 'forge'),
	            'password' => env('DB_PASSWORD', ''),
	            'charset' => 'utf8',
	            'prefix' => '',
	            'prefix_indexes' => true,
	            'search_path' => 'public',
	``

```php
          'sslmode' => 'prefer',
        ],

      'sqlsrv' => [
        'driver' => 'sqlsrv',
        'url' => env('DATABASE_URL'),
        'host' => env('DB_HOST', 'localhost'),
        'port' => env('DB_PORT', '1433'),
        'database' => env('DB_DATABASE', 'forge'),
        'username' => env('DB_USERNAME', 'forge'),
        'password' => env('DB_PASSWORD', ''),
        'charset' => 'utf8',
        'prefix' => '',
        'prefix_indexes' => true,

      ],

    ],

    'migrations' => 'migrations',


    'redis' => [

      'client' => env('REDIS_CLIENT', 'phpredis'),

      'options' => [
        'cluster' => env('REDIS_CLUSTER', 'redis'),
        'prefix' => env('REDIS_PREFIX', Str::slug(env('APP_NAME', 'laravel'),
'_').'_database_'),
      ],

      'default' => [
        'url' => env('REDIS_URL'),
        'host' => env('REDIS_HOST', '127.0.0.1'),
        'username' => env('REDIS_USERNAME'),
        'password' => env('REDIS_PASSWORD'),
        'port' => env('REDIS_PORT', '6379'),
        'database' => env('REDIS_DB', '0'),
      ],

      'cache' => [
        'url' => env('REDIS_URL'),
        'host' => env('REDIS_HOST', '127.0.0.1'),
        'username' => env('REDIS_USERNAME'),
        'password' => env('REDIS_PASSWORD'),
        'port' => env('REDIS_PORT', '6379'),
        'database' => env('REDIS_CACHE_DB', '1'),
      ],
    ],
];
```

Crud.php
```php
<?php
namespace App;
use Illuminate\Database\Eloquent\Model;
class Crud extends Model
{
    //
protected $table='users';
protected $fillable=['first_name','last_name','gender','qualifications'];
}
```

User.php
```php
<?php

namespace App\Models;

// use Illuminate\Contracts\Auth\MustVerifyEmail;
use Illuminate\Database\Eloquent\Factories\HasFactory;
use Illuminate\Foundation\Auth\User as Authenticatable;
use Illuminate\Notifications\Notifiable;
use Laravel\Sanctum\HasApiTokens;

class User extends Authenticatable
{
    use HasApiTokens, HasFactory, Notifiable;

    /**
     * The attributes that are mass assignable.
     *
     * @var array<int, string>
     */
    protected $fillable = [
        'name',
        'email',
        'password',
    ];

    /**
     * The attributes that should be hidden for serialization.
     *
     * @var array<int, string>
     */
    protected $hidden = [
        'password',
        'remember_token',
    ];

    /**
     * The attributes that should be cast.
     *
     * @var array<string, string>
     */
```

```php
    protected $casts = [
      'email_verified_at' => 'datetime',
      'password' => 'hashed',
    ];
}
```

CrudController.php

```php
<?php

namespace App\Http\Controllers;

use App\Crud;
use Illuminate\Http\Request;

class CrudController extends Controller
{
    /**
     * Display a listing of the resource.
     */
    public function index()
    {
        $cruds = Crud::all();

        return view('index', compact('cruds'));
    }

    /**
     * Show the form for creating a new resource.
     */
    public function create()
    {
        //
    }

    /**
     * Store a newly created resource in storage.
     */
    public function store(Request $request)

    {

        $request->validate([
            'first_name'=>'required',
            'last_name'=>'required',
            'gender'=>'required',
            'qualifications'=>'required'
        ]);

        $crud = new Crud;
        $crud->first_name =  $request->get('first_name');
        $crud->last_name = $request->get('last_name');
        $crud->qualifications = $request->get('qualifications');
```

```
      $crud->gender = $request->get('gender');
      $crud->save();
      }
   /**
    * Display the specified resource.
    */
   public function show(string $id)
   {
      //
   }

   /**
    * Show the form for editing the specified resource.
    */
   public function edit($id)
   {
      //
    $crud= Crud::find($id);
    return view('edit', compact('crud'));
   }

   /**
    * Update the specified resource in storage.
    */
   public function update(Request $request, string $id)
   {
      $crud= Crud::find($id);
    return view('edit', compact('crud'));
   }

   /**
    * Remove the specified resource from storage.
    */
   public function destroy($id)
   {
      $crud=Crud::find($id);
      $crud->delete();
   }
}
```

Create.Blade.php
```
@extends('layout.master')
@section('content')
<form method="post" action="{{ route('users.store') }}">
  @csrf
      <div class="form-group">
         <label for="first_name">First Name:</label><br/><br/>
         <input type="text" class="form-control" name="first_name"/><br/><br/>
      </div>
<div class="form-group">
<label for="first_name">Last Name:</label><br/><br/>
         <input type="text" class="form-control" name="last_name"/><br/><br/>
```

```
                </div>
<div class="form-group">
        <label for="gender">Gender:</label><br/><br/>
        <input type="text" class="form-control" name="gender"/><br/><br/>
        </div>
<div class="form-group">
        <label for="qualifications">Qualifications:</label><br/><br/>
        <input type="text" class="form-control" name="qualifications"/><br/><br/>
        </div>
<br/>
<button type="submit" class="btn-btn" >Insert</button>
</form>
@endsection
```

Update.Blade.php
```
@extends('layout.master')
@section('content')
<form method="Post" action="{{route('users.update',$crud->id)}}">
@method('PATCH')
 @csrf
        <div class="form-group">
          <label for="first_name">First Name:</label><br/><br/>
          <input type="text" class="form-control" name="first_name" value={{$crud-
>first_name}}><br/><br/>
        </div>

<div class="form-group">
        <label for="first_name">Last Name:</label><br/><br/>
        <input type="text" class="form-control" name="last_name" value={{$crud-
>last_name}}><br/><br/>
        </div>
<div class="form-group">
        <label for="gender">Gender:</label><br/><br/>
        <input type="text" class="form-control" name="gender" value={{$crud-
>gender}}><br/><br/>
        </div>
<div class="form-group">
        <label for="qualifications">Qualifications:</label><br/><br/>
        <input type="text" class="form-control" name="qualifications" value={{$crud-
>qualifications}}><br/><br/>
        </div>
<br/>

<button type="submit" class="btn-btn" >Update</button>
</form>


@endsection
```
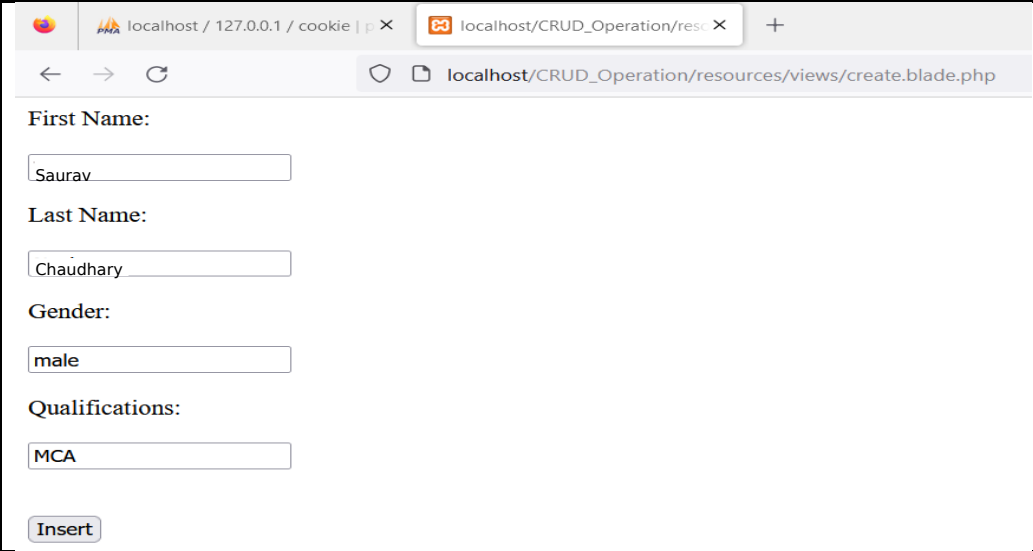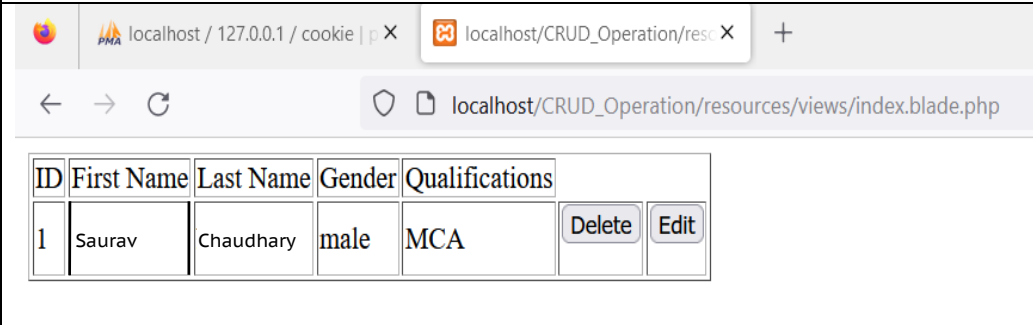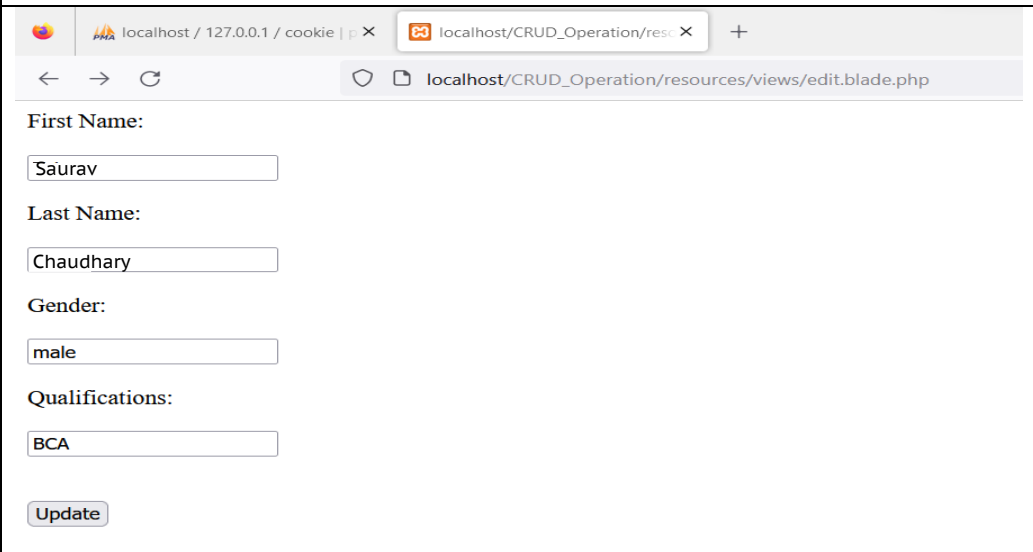
```
C:\Users\HP>composer create-project laravel/laravel CRUD_Operation
Creating a "laravel/laravel" project at "./CRUD_Operation"
Installing laravel/laravel (v10.2.6)
  - Downloading laravel/laravel (v10.2.6)
  - Installing laravel/laravel (v10.2.6): Extracting archive
Created project in C:\Users\HP\CRUD_Operation
> @php -r "file_exists('.env') || copy('.env.example', '.env');"
Loading composer repositories with package information
Updating dependencies
Lock file operations: 110 installs, 0 updates, 0 removals
  - Locking brick/math (0.11.0)
  - Locking dflydev/dot-access-data (v3.0.2)
```

```
C:\Users\HP>cd CRUD_Operation

C:\Users\HP\CRUD_Operation>php artisan make:migration create_user_table --cr
eate="user1"

   INFO  Migration [C:\Users\HP\CRUD_Operation\database\migrations/2023_10_2
1_082341_create_user_table.php] created successfully.
```

```
C:\Users\HP\CRUD_Operation>php artisan migrate

   INFO  Preparing database.

  Creating migration table .................................. 250ms DONE

   INFO  Running migrations.

  2014_10_12_000000_create_users_table ...................... 54ms DONE
  2014_10_12_100000_create_password_reset_tokens_table ...... 86ms DONE
  2019_08_19_000000_create_failed_jobs_table ................ 54ms DONE
  2019_12_14_000001_create_personal_access_tokens_table ..... 80ms DONE
  2023_10_21_082341_create_user_table ....................... 25ms DONE
```

```
C:\Users\HP\CRUD_Operation>php artisan make:controller CrudController -r

   INFO  Controller [C:\Users\HP\CRUD_Operation\app/Http/Controllers/CrudCon
troller.php] created successfully.
```

Output
:

First Name:

Saurav

Last Name:

Chaudhary

Gender:

male

Qualifications:

MCA

Insert

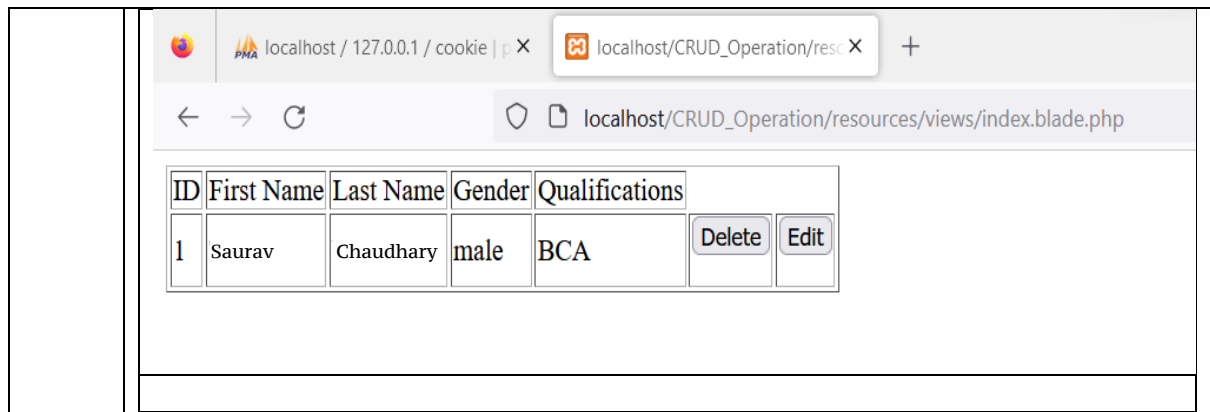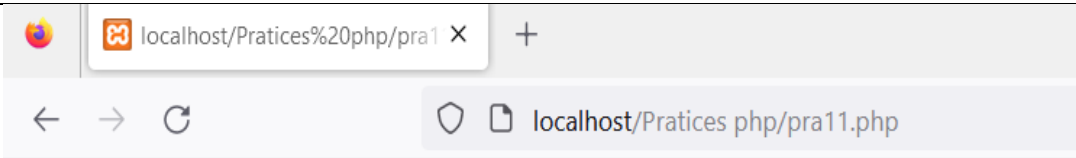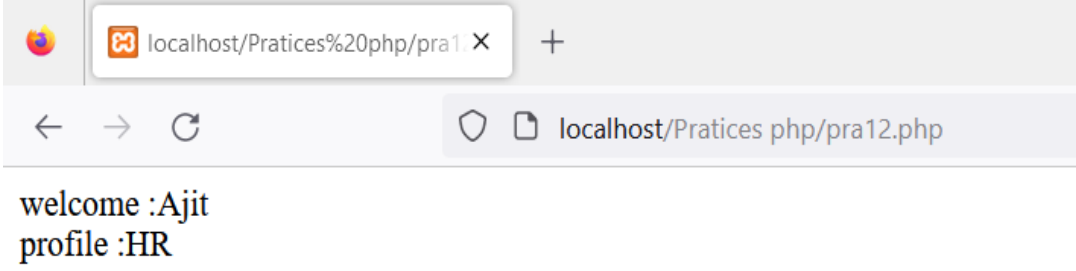| ID	First Name	Last Name	Gender	Qualifications		
1	Saurav	Chaudhary	male	MCA	Delete	Edit

First Name:

Saurav
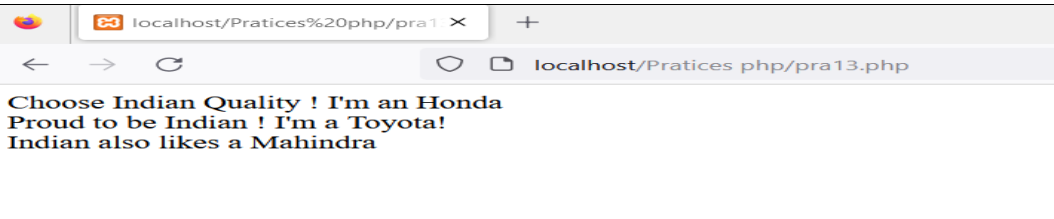
Last Name:

Chaudhary

Gender:

male

Qualifications:

BCA
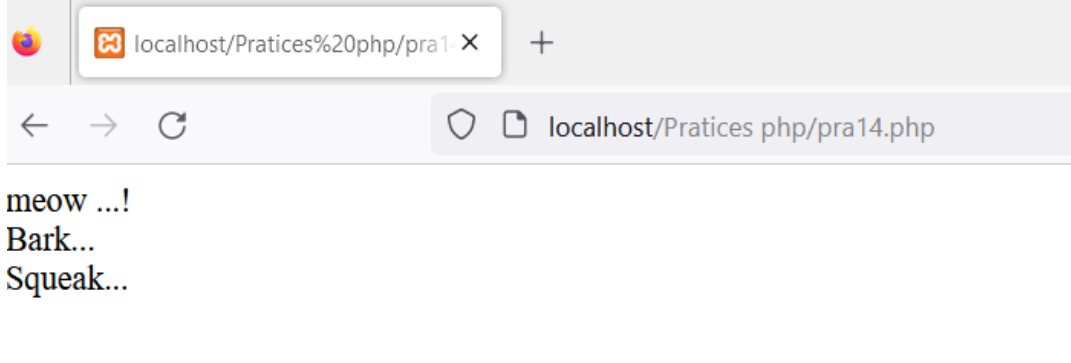
Update
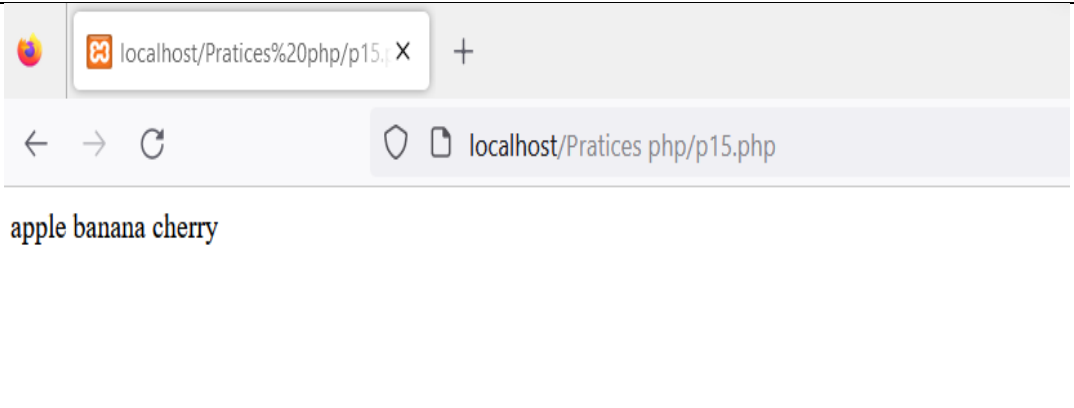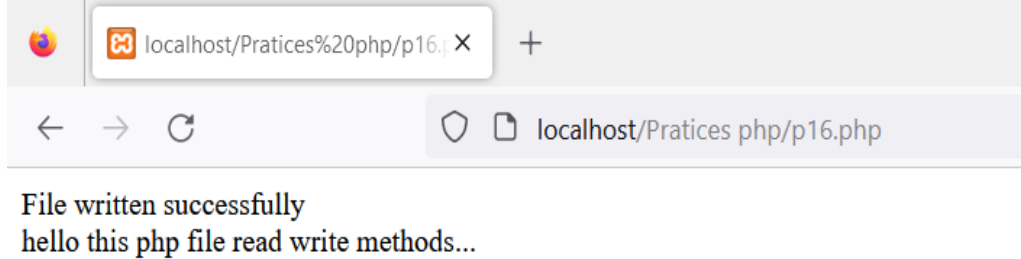
11	Write a PHP script to create class,destructor,constructor and object to access class method.
| Code | ```php
<?php
class Vehicle
{
    public $model;
    public $color;
    public $type;

    function __construct($model,$color)
    {
        $this->model=$model;
        $this->color=$color;
    }
    function __destruct()
    {
        echo "The car model is {$this->model} and car color is {$this->color}";
    }
    function get_model()
    {
        return $this->model;
    }
    function get_color()
    {
        return $this->color;
    }
}
$toyota = new Vehicle("auris","black");
?>
``` |
| Ouput : | localhost/Pratices%20php/pra1 +

← → C   ○ 🗋 localhost/Pratices php/pra11.php

The car model is auris and car color is black |

12	Write a PHP script to show the use of Inheritance and access modifiers
| Code | ```php
<?php
class Employee
{
    public $name="Ajit";
    protected $profile="HR";
    private $salary=50000;

    public function show()
    {
        echo "Employee Name :".$this->name."</br>";
        echo "Profile :".$this->profile."</br>";
        echo "salary :".$this->salary."</br>";
    }
}
class Employee2 extends Employee
{
function display()
    {
        echo "welcome :".$this->name."</br>";
        echo "profile :".$this->profile."</br>";
        // echo "salary :".$this->salary."</br>";
    }
}

$obj=new Employee2;
$obj->display();
?>
``` |
| Ouput : | localhost/Pratices%20php/pra1. × +

localhost/Pratices php/pra12.php

welcome :Ajit
profile :HR |

13.	Write a PHP script to show the use of abstract class.
| Code | ```php
<?php
abstract class Car
{
   public $name;
   public function __construct($name)
   {
      $this->name=$name;
   }
   abstract public function intro():string;
}
class Honda extends Car
{
   public function intro() : string
   {
      return "Choose Indian Quality ! I'm an $this->name ";
   }
}
class Toyota extends Car
{
   public function intro(): string
   {
      return "Proud to be Indian ! I'm a $this->name!";
   }
}
class Mahindra extends Car
{
   public function intro(): string
   {
      return "Indian also likes a  $this->name";
   }
}
$honda = new Honda("Honda");
echo $honda->intro();
echo "<br>";

$toyota=new Toyota("Toyota");
echo $toyota->intro();
echo "<br>";

$mahindra = new Mahindra("Mahindra");
echo $mahindra->intro();

?>
``` |
| Output : | localhost/Pratices%20php/pra1 ×   +
 ← → C   localhost/Pratices php/pra13.php

 Choose Indian Quality ! I'm an Honda
 Proud to be Indian ! I'm a Toyota!
 Indian also likes a Mahindra |

Saurav Chaudhary   23034211064

14.	Write a PHP script to show the use of Interface.

Code	```php
	<?php
	interface Animal
	{
	    public function makeSound();
	}
	class Cat implements Animal
	{
	    public function makeSound()
	    {
	        echo "meow ...!
	";
	    }
	}
	class Dog implements Animal
	{
	    public function makeSound()
	    {
	        echo "Bark...
	";
	    }
	}
	class Mouse implements Animal
	{
	    public function makeSound()
	    {
	        echo "Squeak...
	 ";
	    }
	}
	$cat=new Cat();
	$dog=new Dog();
	$mouse=new Mouse();
	$animals=array($cat,$dog,$mouse);
	
	foreach($animals as $animal)
	{
	    $animal->makeSound();
	}
	?>
	``

Output :	 meow ...! Bark... Squeak...

15.	Write a PHP script to show the use of Iterable.
| Code | ```php
<?php
class MyIterator implements Iterator {
  private $items = [];
  private $pointer = 0;

  public function __construct($items) {

    $this->items = array_values($items);
  }

  public function current() {
    return $this->items[$this->pointer];
  }

  public function key() {
    return $this->pointer;
  }

  public function next() {
    $this->pointer++;
  }

  public function rewind() {
    $this->pointer = 0;
  }

  public function valid() {

    return $this->pointer < count($this->items);
  }
}
function printIterable(iterable $myIterable) {
  foreach($myIterable as $item) {
    echo $item;
  }
}
$iterator = new MyIterator(["apple ", "banana ", "cherry "]);printIterable($iterator);
?>
``` |
| output | localhost/Pratices%20php/p15. X   +

localhost/Pratices php/p15.php

apple banana cherry |

16.	Build a PHP page and use various PHP File functions (Read and Write).

Code	```php
	<?php
	
	//write the file
	$fp = fopen('data.txt', 'w');
	fwrite($fp, 'hello ');
	fwrite($fp, 'this php file read write methods...');
	fclose($fp);
	
	echo "File written successfully
	";
	?>
	
	<?php
	//read the file
	$filename = "data.txt";
	$handle = fopen($filename, "r");
	
	$contents = fread($handle, filesize($filename));
	
	echo $contents;
	fclose($handle);
	?>
	``

Data.txt	hello this php file read write methods...
Output	