PHP Practical

1. **Write a PHP program using expressions and operator (ternary operator, arithmetic operators and comparison operators)**

```php
<?php
$num1 = 3;
$num2 = 3;

// Using ternary operator to check if num1 is greater than num2

$result = ($num1 > $num2) ? "num1 is greater" : "num2 is greater";
echo $result . "<br>";

// Using arithmetic operators to perform calculations

$add = $num1 + $num2;
$sub = $num2 - $num1;
$mul = $num1 * $num2;
$div = $num2 / $num1;
$exponentiation = $num1 ** $num2;
$mod = $num1 % $num2;

echo "Addition: " . $add . "<br>";
echo "Subtraction: " . $sub . "<br>";
echo "Multiplication: " . $mul . "<br>";
echo "Division: " . $div . "<br>";
echo "Exponentiation: " . $exponentiation . "<br>";
echo "Modulus: " . $mod . "<br>";

// Using comparison operators to check if two variables are equal or not

if ($num1 == $num2) {
    echo "num1 and num2 are equal<br>";
} else {
    echo "num1 and num2 are not equal<br>";
}

?>
```

```
num2 is greater
Addition: 6
Subtraction: 0
```

```
Multiplication: 9
Division: 1
Exponentiation: 27
Modulus: 0
num1 and num2 are equal
```

2. Write a PHP program to the use of decision making and control structures using if statement, if else statement and switch case statement.

```
<?php

// If statement example
$num1 = 10;
$num2 = 20;

if ($num1 > $num2) {
    echo "num1 is greater than num2". "<br>";
}
else
{
    echo "num 2 is greater than num1" . "<br>";
}

// If else statement example
$age = 20;

if ($age >= 18) {
    echo "You are eligible to vote" . "<br>";
} else {
    echo "You are not eligible to vote" . "<br>";
}

// Switch case statement example
$dayOfWeek = "Monday";

switch ($dayOfWeek) {
    case "Monday":
        echo "Today is Monday";
        break;
    case "Tuesday":
        echo "Today is Tuesday";
        break;
    case "Wednesday":
        echo "Today is Wednesday";
        break;
    case "Thursday":
        echo "Today is Thursday";
        break;
    case "Friday":
        echo "Today is Friday";
```

```
        break;
    case "Saturday":
        echo "Today is Saturday";
        break;
    case "Sunday":
        echo "Today is Sunday";
        break;
    default:
        echo "Invalid day of the week";
}
```

```
num 2 is greater than num1
You are eligible to vote
Today is Monday
```

3. **Write a PHP program to the use of looping structure using while statement, do while statement.**

```
<?php

// While loop example
$num = 1;

echo "Even numbers from 1 to 10 using a while loop: ";
while ($num <= 10) {
    if ($num % 2 == 0) {
        echo $num . " ";
    }
    $num++;
}

echo "<br>";

// Do-while loop example
$num = 1;

echo "Odd numbers from 1 to 10 using a do-while loop: ";
do {
    if ($num % 2 != 0) {
        echo $num . " ";
    }
    $num++;
} while ($num <= 10);

?>
```

```
Even numbers from 1 to 10 using a while loop: 2 4 6 8 10
Odd numbers from 1 to 10 using a do-while loop: 1 3 5 7 9
```

```
<?php

// While loop example
$num = 1;
```

```
echo "Numbers from 1 to 10 using a while loop: ";
while ($num <= 10) {
    echo $num . " ";
    $num++;
}

echo "<br>";

// Do-while loop example
$num = 1;

echo "Numbers from 1 to 10 using a do-while loop: ";
do {
    echo $num . " ";
    $num++;
} while ($num <= 10);

?>
```

```
Numbers from 1 to 10 using a while loop: 1 2 3 4 5 6 7 8 9 10
Numbers from 1 to 10 using a do-while loop: 1 2 3 4 5 6 7 8 9 10
```

4. Write a PHP program to the use of looping structure using for statement, for each statement.

```
<?php

// For loop example
echo "Numbers from 1 to 5 using a for loop: ";
for ($i = 1; $i <= 5; $i++) {
    echo $i . " ";
}

echo "<br>";

// For-each loop example
$colors = array("red", "green", "blue", "yellow");

echo "Values of the 'colors' array using a for-each loop: " . "<br>";
foreach ($colors as $value) {
    echo $value . "<br>";
}

?>
```

```
Numbers from 1 to 5 using a for loop: 1 2 3 4 5
Values of the 'colors' array using a for-each loop:
red
green
blue
yellow
```

5. **Write a PHP program for creating and manipulating indexed array, associative array and multidimensional array.**

```php
<?php

// Indexed array example
$fruits = array("mango", "apple", "banana", "grapes");
echo "I like " . $fruits[0] . ", " . $fruits[1] . ", " . $fruits[2] . ", and " .
$fruits[3] . "<br>";

// Associative array example
$age = array("Peter" => "35", "Ben" => "37", "Joe" => "43");
echo "Peter is " . $age['Peter'] . " years old.<br>";

// Multidimensional array example
$marks = array(
    "kevin" => array(
        "physics" => 95,
        "maths" => 90,
    ),
    "ryan" => array(
        "physics" => 92,
        "maths" => 97,
    ),
);
echo "Marks for kevin in physics: " . $marks['kevin']['physics'] . "<br>";
echo "Marks for ryan in maths: " . $marks['ryan']['maths'] . "<br>";

?>
```

```
I like mango, apple, banana, and grapes
Peter is 35 years old.
Marks for kevin in physics: 95
Marks for ryan in maths: 97
```

6. **Write a PHP program to calculate length of string, to count the no of words in string and to compare two string using string function.**

```php
<?php

// Calculating the length of a string
$string1 = "Shubham";
$length1 = strlen($string1);
echo "Length of string '$string1' = $length1<br>";

// Counting the number of words in a string
$string2 = "Shubham Mourya.";
$count2 = str_word_count($string2);
echo "No of words in string '$string2' = $count2<br>";

// Comparing two strings
$string3 = "Hello";
$string4 = "hello";
```

```
$compare = strcmp($string3, $string4);
if ($compare == 0) {
    echo "The strings '$string3' and '$string4' are equal.<br>";
} else {
    echo "The strings '$string3' and '$string4' are not equal.<br>";
}

?>
```

```
Length of string 'Shubham' = 7
No of words in string 'Shubham Mourya.' = 2
The strings 'Hello' and 'hello' are not equal.
```

7. **Write a PHP program using following string function: strrev(), strpos(),strrpos(),str_replace(),ucwords(),strtoupper(),strtolower()**

```
<?php

// Using the strrev() function to reverse a string

$string1 = "Shubham Mourya";
$reversed1 = strrev($string1);
echo "Reversed string: $reversed1<br>";

// Using the strpos () function to find the position of a substring in a string

$string2 = "I love php, I love php too!";
$position2 = strpos($string2, "php");
echo "Position of 'php': $position2<br>";

// Using the strrpos() function to find the position of the last occurrence of a
substring in a string

$string3 = "I love php, I love php too!";
$last_position3 = strrpos($string3, "php");
echo "Last position of 'the': $last_position3<br>";

// Using the str_replace () function to replace a substring in a string

$string4 = "Hello, world!";
$replaced4 = str_replace("world", "Shubham", $string4);
echo "Replaced string: $replaced4<br>";

// Using the ucwords() function to capitalize the first letter of each word in a
string

$string5 = "shubham mourya";
$capitalized5 = ucwords($string5);
echo "Capitalized string: $capitalized5<br>";

// Using the strtoupper() function to convert a string to uppercase

$string6 = "Shubham Mourya";
```

```
$uppercase6 = strtoupper($string6);
echo "Uppercase string: $uppercase6<br>";

// Using the strtolower() function to convert a string to lowercase

$string7 = "Shubham Mourya";
$lowercase7 = strtolower($string7);
echo "Lowercase string: $lowercase7<br>";
?>
```

```
Reversed string: ayruoM mahbuhS
Position of 'php': 7
Last position of 'the': 19
Replaced string: Hello, Shubham!
Capitalized string: Shubham Mourya
Uppercase string: SHUBHAM MOURYA
Lowercase string: shubham mourya
```

8. **Write a PHP program to use user define function, variable function and anonymous function.**

```
<?php
// User-defined function to perform addition
function add($num1, $num2)
{
    return $num1 + $num2;
}

// Using the user-defined function to perform addition
$result1 = add(10, 20);
echo "The result of addition using a user-defined function is: $result1<br>";

// Variable function to call different functions based on a variable value
function red()
{
    echo "Roses are Red<br>";
}
function blue()
{
    echo "The sky is Blue<br>";
}
function green()
{
    echo "Trees are Green<br>";
}
$color = "red";
$color();

// Anonymous function created using create_function to perform addition
// $addition = create_function('$num1, $num2', 'return $num1 + $num2;');
// $result2 = $addition(30, 40);
// echo "The result of addition using an anonymous function is: $result2<br>";
```

```php
$add = function($a, $b) {
    return $a + $b;
};

echo "Addition = " .$add(3, 4);

?>
```

```
The result of addition using a user-defined function is: 30
Roses are Red
Addition = 7
```

9. Write a PHP program to create PDF document by using graphics concept.

```php
<?php
    require('fpdf185/fpdf.php');

    $pdf = new FPDF();
    $pdf->AddPage();
    $pdf->SetFont('Arial', 'B', 16);
    $pdf->Cell(100, 10, 'Rohit Sharma!');
    $pdf->Output();
?>
```

10. Write a PHP program a) to inherit member of superclass in subclass b) create constructor to initialize object of class by using object-oriented concept.

```php
//a) to inherit member of superclass in subclass
<?php
class Animal {
  protected $name;

  public function __construct($name) {
    $this->name = $name;
  }

  public function eat() {
    echo $this->name . ' is eating. ';
  }
}

class Cat extends Animal {
  public function meow() {
    echo $this->name . ' is meowing. ';
```

```
  }
}

$cat = new Cat('Kitty');
$cat->eat(); // Output: Kitty is eating.
$cat->meow(); // Output: Kitty is meowing.
?>
```

// b) create constructor to initialize object of class by using object-oriented concept.

```
<?php
class Person {
  private $name;
  private $age;

  public function __construct($name, $age) {
    $this->name = $name;
    $this->age = $age;
  }

  public function getInfo() {
    echo 'Name: ' . $this->name . ', Age: ' . $this->age . '. ';
  }
}

$person = new Person('John Doe', 30);
$person->getInfo(); // Output: Name: John Doe, Age: 30.
?>
```

11. Write a PHP program on introspection and serialization.

Introspection

```
<?php
class ParentClass
{
    function parentMethod()
    {
        return true;
    }
}

class Test extends ParentClass
{
    function testing_one()
    {
        return true;
    }
    function testing_two()
    {
        return true;
    }
    function testing_three()
```

```
    {
        return true;
    }
}

// Check if class "Test" exists
if (class_exists('Test')) {
    $t = new Test();
    echo "The class exists. <br>";
} else {
    echo "Class does not exist. <br>";
}

// Access name of the class
$p = new Test();
echo "Its class name is " . get_class($p) . "<br>";

// Access names of the methods/functions
$method = get_class_methods(new Test());
echo "<b>List of Methods:</b><br>";
foreach ($method as $method_name) {
    echo "$method_name<br>";
}

// Access name of parent class
echo "The parent class of Test is " . get_parent_class('Test') . "<br>";

// Check if Test is a subclass of ParentClass
if (is_subclass_of('Test', 'ParentClass')) {
    echo "Test is a subclass of ParentClass. <br>";
} else {
    echo "Test is not a subclass of ParentClass. <br>";
}
?>
```

```
The class exists.
Its class name is Test
List of Methods:
testing_one
testing_two
testing_three
parentMethod
The parent class of Test is ParentClass
Test is a subclass of ParentClass.
```

Serializing

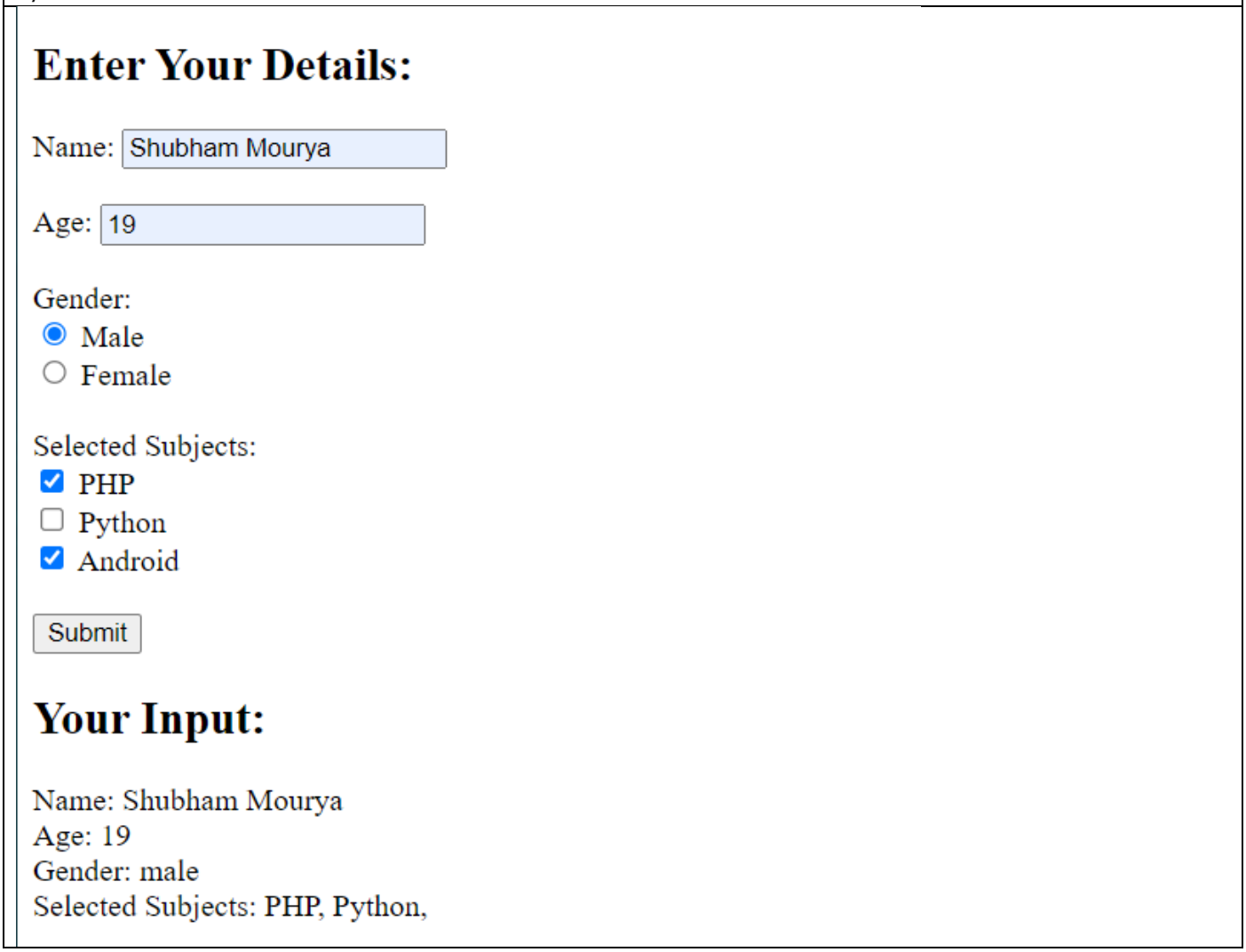
```
<?php
$data = serialize(array("Red", "Green", "Blue"));
echo "Serialized data: " . $data . "<br>";
$test = unserialize($data);
echo "Unserialized data: ";
var_dump($test);
?>
```

```
Serialized data: a:3:{i:0;s:3:"Red";i:1;s:5:"Green";i:2;s:4:"Blue";}
Unserialized data: array(3) { [0]=> string(3) "Red" [1]=> string(5) "Green" [2]=>
string(4) "Blue" }
```

12. Design a web page using following form controls: a) textbox b) radio button c) check box d) button

```
<!DOCTYPE html>
<html>

<head>
    <title>Form Example</title>
</head>

<body>
    <h2>Enter Your Details:</h2>
    <form method="post" action="<?php echo $_SERVER['PHP_SELF']; ?>">
        <label>Name:</label>
        <input type="text" name="name"><br><br>
        <label>Age:</label>
        <input type="text" name="age"><br><br>
        <label>Gender:</label><br>
        <input type="radio" name="gender" value="male"> Male<br>
        <input type="radio" name="gender" value="female"> Female<br><br>
        <label>Selected Subjects:</label><br>
        <input type="checkbox" name="subjects[]" value="PHP"> PHP<br>
        <input type="checkbox" name="subjects[]" value="Python"> Python<br>
        <input type="checkbox" name="subjects[]" value="Android"> Android<br><br>
        <input type="submit" name="submit" value="Submit">
    </form>

    <?php
    if ($_SERVER["REQUEST_METHOD"] == "POST") {
        $name = $_POST["name"];
        $age = $_POST["age"];
        $gender = $_POST["gender"];
        $subjects = $_POST["subjects"];
        echo "<h2>Your Input:</h2>";
        echo "Name: " . $name . "<br>";
        echo "Age: " . $age . "<br>";
        echo "Gender: " . $gender . "<br>";
        if (!empty($subjects)) {
            echo "Selected Subjects: ";
            foreach ($subjects as $subject) {
                echo $subject . ", ";
            }
        } else {
            echo "No subject selected";
        }
    }
    ?>
```

```
</body>

</html>
```



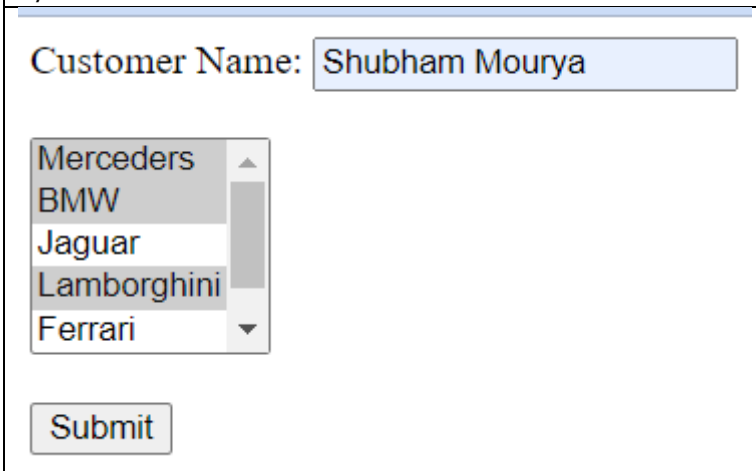
13. Design a web page using following form controls: a) List box b) hidden field box

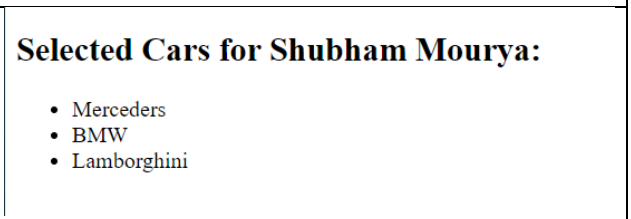
```
<!DOCTYPE html>
<html>

<head>
    <title>Example of List Box</title>
</head>

<body>
    <form method="post" action="selected_cars.php" target="_blank">
        Customer Name: <input type="text" name="name" placeholder="Enter the
Customer Name" />
        <br><br>
        <select name="cars[]" multiple="multiple" size="5">
            <option value="Merceders">Merceders</option>
            <option value="BMW">BMW</option>
```

```
            <option value="Jaguar">Jaguar</option>
            <option value="Lamborghini">Lamborghini</option>
            <option value="Ferrari">Ferrari</option>
            <option value="Ford">Ford</option>
        </select>
        <br><br>
        <input type="submit" name="submit" value="Submit" />
    </form>
</body>

</html>
```

Selected_cars.php

```
<!DOCTYPE html>
<html>

<head>
    <title>Selected Cars</title>
</head>

<body>
    <?php
    if (isset($_POST['submit'])) {
        $name = $_POST['name'];
        $cars = $_POST['cars'];
        echo "<h2>Selected Cars for $name:</h2><ul>";
        foreach ($cars as $car) {
            echo "<li>$car</li>";
        }
        echo "</ul>";
    }
    ?>
</body>

</html>
```





Hidden Field Box

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

```
<body>

    <h1>A Hidden Field</h1>

    <form method="POST" action="data.php" method="POST">
        <label for="fname">First name:</label>
        <input type="text" id="fname" name="fname"><br><br>
        <input type="hidden" id="custId" name="custId" value="3487">
        <input type="submit" value="Submit">
    </form>

</body>

</html>
```

data.php

```
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
  $custId = $_POST["custId"];
  echo "The customer ID is: " . $custId;
}
?>
```

14. Develop a web page with data validation.

```
<?php
// define variables and set to empty values
$nameErr = $emailErr = $phoneErr = "";
$name = $email = $phone = $comment = "";

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    if (empty($_POST["name"])) {
        $nameErr = "Name is required";
    } else {
        $name = test_input($_POST["name"]);
        // check if name only contains letters and whitespace
        if (!preg_match("/^[a-zA-Z ]*$/", $name)) {
            $nameErr = "Only letters and white space allowed";
        }
    }

    if (empty($_POST["email"])) {
        $emailErr = "Email is required";
    } else {
        $email = test_input($_POST["email"]);
        // check if email address is well-formed
        if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
            $emailErr = "Invalid email format";
        }
    }

    if (empty($_POST["phone"])) {
        $phoneErr = "Phone number is required";
```

```
    } else {
        $phone = test_input($_POST["phone"]);
        // check if phone number is well-formed
        if (!preg_match("/^[0-9]{10}$/", $phone)) {
            $phoneErr = "Invalid phone number format";
        }
    }

    $comment = test_input($_POST["comment"]);
}

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

<form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>">
    Name: <input type="text" name="name" value="<?php echo $name; ?>">
    <span class="error">*
        <?php echo $nameErr; ?>
    </span>
    <br><br>
    Email: <input type="email" name="email" value="<?php echo $email; ?>">
    <span class="error">*
        <?php echo $emailErr; ?>
    </span>
    <br><br>
    Phone: <input type="text" name="phone" value="<?php echo $phone; ?>">
    <span class="error">*
        <?php echo $phoneErr; ?>
    </span>
    <br><br>
    Comment: <textarea name="comment" rows="5" cols="40"><?php echo $comment;
?></textarea>
    <br><br>
    <input type="submit" name="submit" value="Submit">
</form>

<?php
// display input values if form was submitted successfully
if ($_SERVER["REQUEST_METHOD"] == "POST" && empty($nameErr) && empty($emailErr) &&
empty($phoneErr)) {
    echo "<h2>Your Input:</h2>";
    echo "Name: " . $name . "<br>";
    echo "Email: " . $email . "<br>";
    echo "Phone: " . $phone . "<br>";
    echo "Comment: " . $comment . "<br>";
```

```
}
?>
```

Name: Shubham Mourya *

Email: shubham@gmail.com *

Phone: 8080808080 *

Comment: Hello

Submit

Your Input:

Name: Shubham Mourya
Email: shubham@gmail.com
Phone: 8080808080
Comment: Hello

15. Write a PHP program to create cookies, modify cookies value and delete cookies.

```
<?php
$cookie_name = "user";
$cookie_value = "John Doe";

// create cookie
setcookie($cookie_name, $cookie_value, time() + (86400 * 30), "/"); // 86400 = 1 day
echo "Cookie created! Name: $cookie_name, Value: $cookie_value <br>";

// check if cookie exists
if (isset($_COOKIE[$cookie_name])) {
    // modify cookie
    $cookie_value = "Alex Porter";
    setcookie($cookie_name, $cookie_value, time() + (86400 * 30), "/");
    echo "Cookie modified! Name: $cookie_name, New value: $cookie_value <br>";

    // delete cookie
    setcookie($cookie_name, "", time() - 3600);
    echo "Cookie deleted! Name: $cookie_name <br>";
} else {
    echo "Cookie does not exist! <br>";
}

?>
```

```
Cookie created! Name: user, Value: John Doe
Cookie modified! Name: user, New value: Alex Porter
Cookie deleted! Name: user
```

OR

Create Cookies

```
<?php
$cookie_name = "user";
$cookie_value = "John Doe";
setcookie($cookie_name, $cookie_value, time() + (86400 * 30), "/"); // 86400 = 1 day
?>
<html>

<body>

    <?php
    if (!isset($_COOKIE[$cookie_name])) {
        echo "Cookie named '" . $cookie_name . "' is not set!";
    } else {
        echo "Cookie '" . $cookie_name . "' is set!<br>";
        echo "Value is: " . $_COOKIE[$cookie_name];
    }
    ?>

</body>

</html>
```

```
Cookie 'user' is set!
Value is: John Doe
```

Modify Cookie

```
<?php
$cookie_name = "user";
$cookie_value = "Alex Porter";
setcookie($cookie_name, $cookie_value, time() + (86400 * 30), "/");
?>
<html>
<body>

<?php
if(!isset($_COOKIE[$cookie_name])) {
  echo "Cookie named '" . $cookie_name . "' is not set!";
} else {
  echo "Cookie Modified '" . $cookie_name . "' is set!<br>";
  echo "Value is: " . $_COOKIE[$cookie_name];
}
?>

</body>
</html>
```

```
Cookie Modified 'user' is set!
Value is: Alex Porter
```

Delete Cookies

```
<?php
// set the expiration date to one hour ago
setcookie("user", "", time() - 3600);
?>
<html>
```

```
<body>

<?php
echo "Cookie 'user' is deleted.";
?>

</body>
</html>
```

```
Cookie 'user' is deleted.
```

16. Write a PHP program to start session, get session variable and destroy session.

All in one

```
<?php
// start the session
session_start();

// set session variables
$_SESSION["favcolor"] = "green";
$_SESSION["favanimal"] = "cat";

// display a message indicating that session variables are set
echo "Session variables are set.";

// retrieve session variables
echo "<br>Favorite color is " . $_SESSION["favcolor"] . ".<br>";
echo "Favorite animal is " . $_SESSION["favanimal"] . ".";

// destroy the session
session_unset();
session_destroy();

echo "<br>Session variables are destroyed.";
?>
```

```
Session variables are set.
Favorite color is green.
Favorite animal is cat.
Session variables are destroyed.
```

Start session

```
<?php
// Start the session
session_start();
?>
<!DOCTYPE html>
<html>
<body>

<?php
// Set session variables
```

```
$_SESSION["favcolor"] = "green";
$_SESSION["favanimal"] = "cat";
echo "Session variables are set.";
?>

</body>
</html>
```

```
Session variables are set.
```

Get Session variable

```
<?php
session_start();
?>
<!DOCTYPE html>
<html>
<body>

<?php
// Echo session variables that were set on previous page
echo "Favorite color is " . $_SESSION["favcolor"] . ".<br>";
echo "Favorite animal is " . $_SESSION["favanimal"] . ".";
?>

</body>
</html>
```

```
Favorite color is green.
Favorite animal is cat.
```

Destroy Session

```
<?php
session_start();
?>
<!DOCTYPE html>
<html>
<body>

<?php
// remove all session variables
session_unset();

// destroy the session
session_destroy();

echo "Session Variables destroyed"
?>

</body>
</html>
```

```
Session Variables destroyed
```

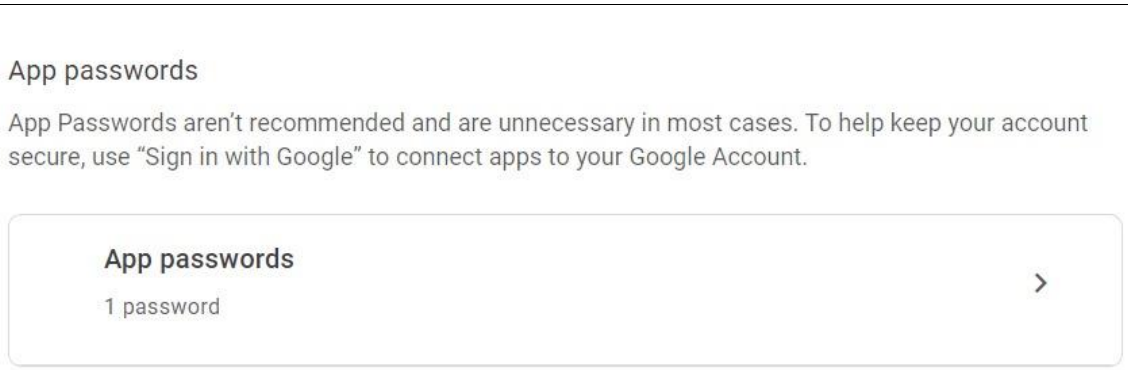
17. Write a PHP program for sending and receiving plain text message (sending email).

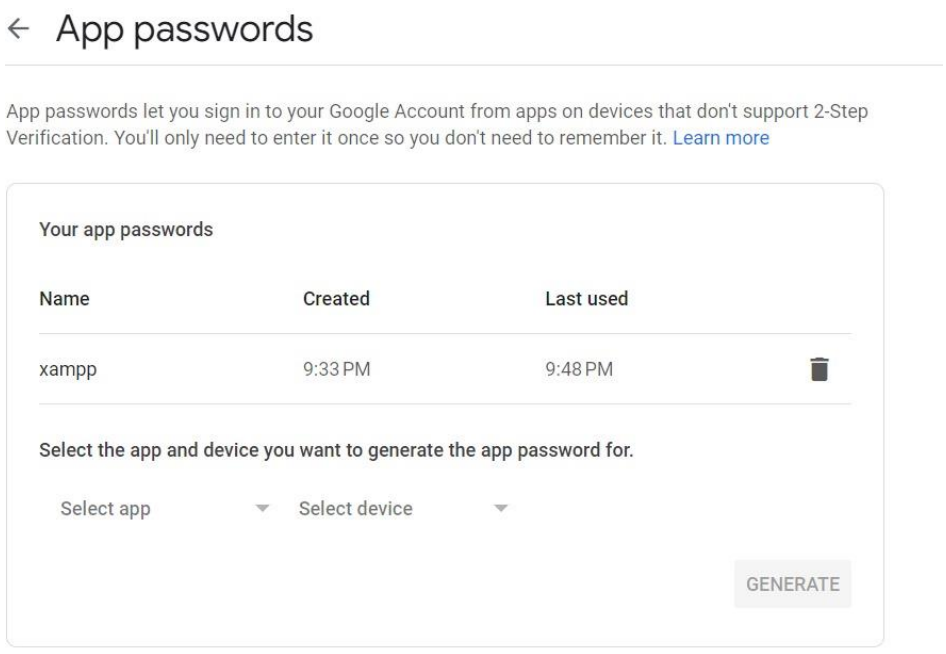
```php
<?php
$to_email = "shubhammourya7204@gmail.com";
$subject = "Simple Email Test via PHP";
$body = "Hi, This is test email send by PHP Script";
$headers = "From: onlinelearner01learn@gmail.com";

if (mail($to_email, $subject, $body, $headers)) {
    echo "Email successfully sent to $to_email...";
} else {
    echo "Email sending failed...";
}
```

https://youtu.be/dNTZ8X9Xk_Q

https://www.thapatechnical.com/2020/03/how-to-send-mail-from-localhost-xampp.html

If someone's code output is saying email send failed then they can follow some steps
Go to google security
Turn on 2 step authentication
Go to app password below that name= xampp then click generate copy the app password then paste that in your sendmail.ini password = .. instead of your gmail password



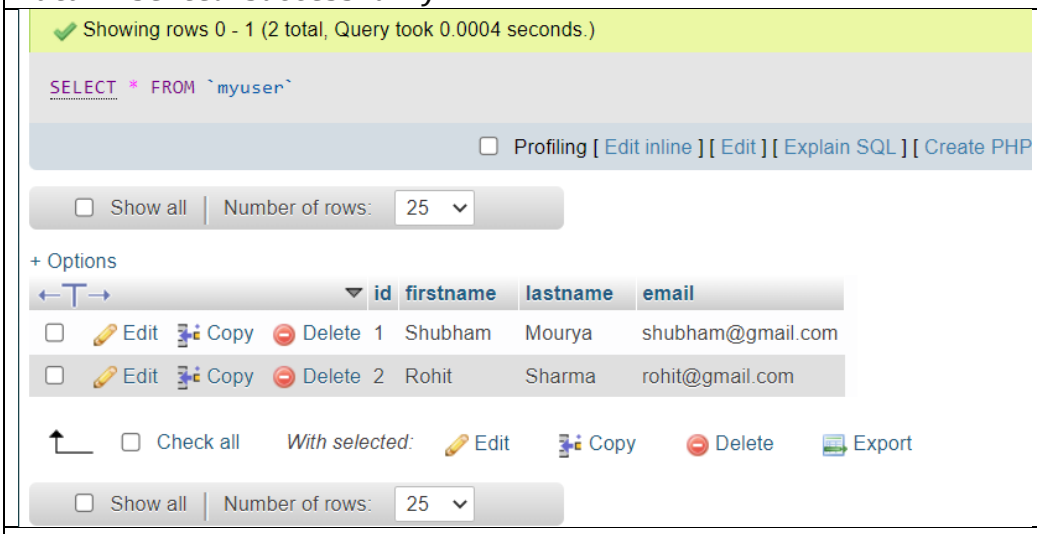


18. Write a PHP program to create database and creation of table.

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

// Connect to MySQL server
$conn = mysqli_connect($servername, $username, $password);

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

// Create database
$sql = "CREATE DATABASE $dbname";
if (mysqli_query($conn, $sql)) {
    echo "Database created successfully<br>";
} else {
    echo "Error creating database: " . mysqli_error($conn);
}

// Select database
mysqli_select_db($conn, $dbname);

// SQL to create table
$sql = "CREATE TABLE myuser (
    id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
    firstname VARCHAR(30) NOT NULL,
    lastname VARCHAR(30) NOT NULL,
    email VARCHAR(50)
)";

// Create table
if (mysqli_query($conn, $sql)) {
    echo "Table myuser created successfully<br>";
} else {
    echo "Error creating table: " . mysqli_error($conn);
}

// Insert some data
$sql = "INSERT INTO myuser (firstname, lastname, email) VALUES
        ('Shubham', 'Mourya', 'shubham@gmail.com'),
        ('Rohit', 'Sharma', 'rohit@gmail.com')";

// Insert data
if (mysqli_query($conn, $sql)) {
    echo "Data inserted successfully<br>";
} else {
    echo "Error inserting data: " . mysqli_error($conn);
}
```

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

```
Database created successfully
Table myuser created successfully
Data inserted successfully
```



https://youtu.be/YtvV7TEVHeY

19. Write a PHP program to Inserting and retrieving the query result operations and Update, Delete operations on table data.

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

// Create connection
$conn = mysqli_connect($servername, $username, $password);

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

// Create database
$sql = "CREATE DATABASE $dbname";
if (mysqli_query($conn, $sql)) {
    echo "Database created successfully<br>";
} else {
    echo "Error creating database: " . mysqli_error($conn) . "<br>";
}

// Select database
mysqli_select_db($conn, $dbname);

// Create table
```

```
$sql = "CREATE TABLE users (
id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
name VARCHAR(30) NOT NULL
)";

if (mysqli_query($conn, $sql)) {
    echo "Table users created successfully<br>";
} else {
    echo "Error creating table: " . mysqli_error($conn) . "<br>";
}

// Insert some data
$sql = "INSERT INTO users (name) VALUES
        ('John'),
        ('Jane'),
        ('Bob'),
        ('Alice'),
        ('Dave')";

if (mysqli_query($conn, $sql)) {
    echo "Data inserted successfully<br>";
} else {
    echo "Error inserting data: " . mysqli_error($conn) . "<br>";
}

// Retrieve data
echo "Retrieving Data<br>";
$sql = "SELECT * FROM users";
$result = mysqli_query($conn, $sql);

if (mysqli_num_rows($result) > 0) {
    foreach ($result as $row) {
        echo "id: " . $row["id"] . " - Name: " . $row["name"] . "<br>";
    }
} else {
    echo "0 results<br>";
}

// Update data
$sql = "UPDATE users SET name='Mary' WHERE id=2";
if (mysqli_query($conn, $sql)) {
    echo "Record updated successfully<br>";
} else {
    echo "Error updating record: " . mysqli_error($conn) . "<br>";
}

// Delete data
$sql = "DELETE FROM users WHERE id=5";
if (mysqli_query($conn, $sql)) {
    echo "Record deleted successfully<br>";
} else {
    echo "Error deleting record: " . mysqli_error($conn) . "<br>";
```

```
}

mysqli_close($conn);
?>
```

```
Database created successfully
Table users created successfully
Data inserted successfully
Retrieving Data
id: 1 - Name: John
id: 2 - Name: Jane
id: 3 - Name: Bob
id: 4 - Name: Alice
id: 5 - Name: Dave
Record updated successfully
Record deleted successfully
```