PRACTICAL 2

<?php

$a = 10;

$b = 5;

echo "a + b = " . ($a + $b) . "<br>";

echo "a - b = " . ($a - $b) . "<br>";

echo "a \* b = " . ($a \* $b) . "<br>";

echo "a / b = " . ($a / $b) . "<br>";

echo "a % b = " . ($a % $b) . "<br>";

$c = 10;

$d = 5;

$c += $d;

echo "c += d = " . $c . "<br>";

$c -= $d;

echo "c -= d = " . $c . "<br>";

$e = 10;

$f = 5;

if ($e == $f) {

    echo "e equals f";

} else {

    echo "e not equals f";

}

$g = 10;

$h = 5;

$i = 15;

if ($g > $h && $g < $i) {

    echo "g is between h and i";

}

$str1 = "Hello";

$str2 = "World";

echo $str1 . " " . $str2;

$num = 10;

echo ++$num . "<br>";

echo --$num . "<br>";

echo $num++ . "<br>";

echo $num-- . "<br>";

?>

Practical 3

<?php

$a = 10;

$b = 5;

if ($a > $b) {

    echo "The value of a is greater than b";

} else {

    echo "The value of b is greater than a";

}

$c = 10;

$d = 5;

if ($c > $d) {

    echo "The value of c is greater than d";

} elseif ($c < $d) {

    echo "The value of d is greater than c";

} else {

    echo "The value of c and d are equal";

}

$e = 10;

$f = 5;

if ($e > $f) {

    if ($e == $f) {

        echo "The value of e and f are equal";

    } else {

        echo "The value of e is greater than f";

    }

} else {

    echo "The value of f is greater than e";

}

?>

Prcatical 4

<?php

$color = "red";

switch ($color) {

    case "red":

        echo "Color is red";

        break;

    case "blue":

        echo "Color is blue";

        break;

    case "green":

        echo "Color is green";

        break;

    default:

        echo "Color is not red, blue or green";

}

$number = 5;

switch ($number) {

    case 1:

        echo "Number is 1";

        break;

    case 2:

        echo "Number is 2";

        break;

    case 3:

        echo "Number is 3";

        break;

    default:

        echo "Number is not 1, 2 or 3";

}

?>

Practical 5

<?php

$i = 1;

while ($i <= 5) {

    echo "The value of i is: $i <br>";

    $i++;

}

echo "<br>";

$j = 1;

do {

    echo "The value of i is: $j <br>";

    $j++;

} while ($j <= 5);

?>

Practical 6

<?php

for ($i = 1; $i <= 5; $i++) {

    echo "The number is: $i <br>";

}

$numbers = [1, 2, 3, 4, 5];

foreach ($numbers as $number) {

    echo "The number is: $number <br>";

}

?>

Practical 7

<?php

$numbers = array(1, 2, 3, 4, 5);

$numbers[0] = 10;

unset($numbers[2]);

$numbers[] = 6;

foreach ($numbers as $number) {

    echo "The number is: $number <br>";

}

$num = array(1, 2, 3, 4, 5, 6, 7, 8, 9, 10);

array\_push($num, 11, 12, 13, 14, 15);

array\_pop($num);

array\_unshift($num, 0);

array\_shift($num);

$array1 = array(1, 2, 3);

echo "Array 1: " . implode(", ", $array1) . "<br>";

$array2 = array(4, 5, 6);

echo "Array 2: " . implode(", ", $array2) . "<br>";

$array3 = array\_merge($array1, $array2);

echo "Array 3 (merged): " . implode(", ", $array3) . "<br>";

$array4 = array\_reverse($array3);

echo "Array 4 (reversed): " . implode(", ", $array4) . "<br>";

$array5 = array\_search(3, $array4);

echo "Array 5 (search result): " . $array5 . "<br>";

$array6 = array\_keys($array4);

echo "Array 6 (keys): " . implode(", ", $array6) . "<br>";

$array7 = array\_values($array4);

echo "Array 7 (values): " . implode(", ", $array7) . "<br>";

$array8 = array\_slice($array4, 2, 5);

echo "Array 8 (sliced): " . implode(", ", $array8) . "<br>";

$array9 = array\_splice($array4, 2, 5);

echo "Array 9 (spliced): " . implode(", ", $array9) . "<br>";

$array10 = array\_sum($array4);

echo "Array 10 (sum): " . $array10 . "<br>";

$array11 = array\_product($array4);

echo "Array 11 (product): " . $array11 . "<br>";

$array12 = array\_filter($array4, function($value) {

    return $value > 5;

});

echo "Array 12 (filtered): " . implode(", ", $array12) . "<br>";

$array13 = array\_map(function($value) {

    return $value \* 2;

}, $array4);

echo "Array 13 (mapped): " . implode(", ", $array13) . "<br>";

?>

Practical 8

<?php

$numbers = array("one" => 1, "two" => 2, "three" => 3);

echo "numbers array: ";

print\_r($numbers);

echo "<br>";

$numbers["four"] = 4;

unset($numbers["two"]);

$numbers["five"] = 5;

foreach ($numbers as $key => $value) {

    echo "$key: $value <br>";

}

$num = array("one" => 1, "two" => 2, "three" => 3, "four" => 4, "five" => 5);

echo "num array: ";

print\_r($num);

echo "<br>";

if (array\_key\_exists("one", $num)) {

    echo "The key one exists in the array <br>";

}

$array1 = array("one" => 1, "two" => 2, "three" => 3);

echo "array1: ";

print\_r($array1);

echo "<br>";

$array2 = array\_keys($array1);

echo "array2: ";

print\_r($array2);

echo "<br>";

$array3 = array("one" => 1, "two" => 2, "three" => 3);

echo "array3: ";

print\_r($array3);

echo "<br>";

$array4 = array\_values($array3);

echo "array4: ";

print\_r($array4);

echo "<br>";

$array5 = array("one" => 1, "two" => 2, "three" => 3);

echo "array5: ";

print\_r($array5);

echo "<br>";

$array6 = array("four" => 4, "five" => 5, "six" => 6);

echo "array6: ";

print\_r($array6);

echo "<br>";

$array7 = array\_merge($array5, $array6);

echo "array7: ";

print\_r($array7);

echo "<br>";

$array8 = array("one" => 1, "two" => 2, "three" => 3);

echo "array8: ";

print\_r($array8);

echo "<br>";

$array9 = array("four" => 4, "five" => 5, "six" => 6);

echo "array9: ";

print\_r($array9);

echo "<br>";

$array10 = array\_intersect\_key($array8, $array9);

echo "array10: ";

print\_r($array10);

echo "<br>";

$array11 = array("one" => 1, "two" => 2, "three" => 3);

echo "array11: ";

print\_r($array11);

echo "<br>";

$array12 = array("four" => 4, "five" => 5, "six" => 6);

echo "array12: ";

print\_r($array12);

echo "<br>";

$array13 = array\_combine($array11, $array12);

echo "array13: ";

print\_r($array13);

echo "<br>";

$array14 = array("one" => 1, "two" => 2, "three" => 3);

echo "array14: ";

print\_r($array14);

echo "<br>";

$array15 = array\_flip($array14);

echo "array15: ";

print\_r($array15);

echo "<br>";

$array16 = array("one" => 1, "two" => 2, "three" => 3);

echo "array16: ";

print\_r($array16);

echo "<br>";

$array17 = array\_change\_key\_case($array16, CASE\_UPPER);

echo "array17: ";

print\_r($array17);

echo "<br>";

$array18 = array("one" => 1, "two" => 2, "three" => 3);

echo "array18: ";

print\_r($array18);

echo "<br>";

$array19 = array\_sum($array18);

echo "array19 (sum): $array19<br>";

$array20 = array("one" => 1, "two" => 2, "three" => 3);

echo "array20: ";

print\_r($array20);

echo "<br>";

$array21 = array\_search(2, $array20);

echo "array21 (search result): $array21<br>";

?>

Practical 9

<?php

$numbers = [

    [1, 2, 3],

    [4, 5, 10],

    [7, 8, 9]

];

foreach ($numbers as $row) {

    foreach ($row as $number) {

        echo "$number ";

    }

    echo "<br>";

}

$grades = [

    ["Maths" => 90, "Science" => 85, "English" => 95],

    ["Maths" => 80, "Science" => 75, "English" => 85],

    ["Maths" => 70, "Science" => 65, "English" => 75]

];

foreach ($grades as $student) {

    foreach ($student as $subject => $grade) {

        echo "Grade in $subject: $grade <br>";

    }

    echo "<br>";

}

?>

Practical 10

<?php

$string = "Hello World";

$length = strlen($string);

echo "The length of the string is: $length";

echo "<br>";

$string1 = "Hello World";

$length1 = 0;

for ($i = 0; $i < strlen($string); $i++) {

    $length1++;

}

echo "The length of the string is: $length1";

?>

Practical 11

<?php

function factorial($n) {

    return ($n <= 1) ? 1 : $n \* factorial($n - 1);

}

$number = 5;

echo "Factorial of $number is: " . factorial($number);

?>

Practical 12

<?php

$str = "  Hello World! PHP is awesome.   ";

echo "Length of the string: " . strlen($str) . "\n";

$trimmed = trim($str);

echo "String after trim: '$trimmed'\n";

echo "Lowercase string: " . strtolower($str) . "\n";

echo "Uppercase string: " . strtoupper($str) . "\n";

echo "Capitalized string: " . ucwords($str) . "\n";

$pos = strpos($str, "PHP");

if ($pos !== false) {

    echo "'PHP' found at position: $pos\n";

}

echo "Substring: " . substr($str, 7, 5) . "\n";

echo "Replaced string: " . str\_replace("awesome", "great", $str) . "\n";

$arr = explode(" ", $trimmed);

echo "Exploded array: ";

print\_r($arr);

echo "Imploded string: " . implode("-", $arr) . "\n";

?>

Practical 13

<?php

function greet() {

    echo "Hello, welcome to PHP programming!<br>";

}

function greetUser($name) {

    echo "Hello, $name! Welcome to PHP programming!<br>";

}

greet();

greetUser("Alice");

greetUser("Bob");

?>

Practical 14

<?php

class Rectangle {

    public $length;

    public $width;

    public function \_\_construct($length, $width) {

        $this->length = $length;

        $this->width = $width;

    }

    public function getArea() {

        return $this->length \* $this->width;

    }

    public function getPerimeter() {

        return 2 \* ($this->length + $this->width);

    }

}

$rect = new Rectangle(10, 5);

echo "Area of the rectangle: " . $rect->getArea() . "<br>";

echo "Perimeter of the rectangle: " . $rect->getPerimeter() . "<br>";

?>

Practical 15

<?php

class Person {

    public $name;

    public $age;

    public function \_\_construct($name, $age) {

        $this->name = $name;

        $this->age = $age;

    }

    public function displayPerson() {

        echo "Name: $this->name <br>";

        echo "Age: $this->age <br>";

    }

}

class Employee extends Person {

    public $salary;

    public $position;

    public function \_\_construct($name, $age, $salary, $position) {

        parent::\_\_construct($name, $age);

        $this->salary = $salary;

        $this->position = $position;

    }

    public function displayEmployee() {

        $this->displayPerson();

        echo "Salary: $this->salary <br>";

        echo "Position: $this->position <br>";

    }

}

$employee = new Employee("John Doe", 30, 50000, "Software Developer");

$employee->displayEmployee();

?>

Practical 16

<?php

class Car {

    public $make;

    public $model;

    public $year;

    public function \_\_construct($make, $model, $year) {

        $this->make = $make;

        $this->model = $model;

        $this->year = $year;

    }

    public function displayCarDetails() {

        echo "Car Make: $this->make <br>";

        echo "Car Model: $this->model <br>";

        echo "Manufacturing Year: $this->year <br>";

    }

}

$myCar = new Car("Toyota", "Corolla", 2020);

$myCar->displayCarDetails();

?>

Practical 17

<?php

if ($\_SERVER['REQUEST\_METHOD'] == 'POST') {

    echo "<h2>Form Data:</h2>";

    echo "Name: {$\_POST['name']}<br>";

    echo "Gender: {$\_POST['gender']}<br>";

    echo "Subscribed: " . (isset($\_POST['subscribe']) ? 'Yes' : 'No');

}

?>

<!DOCTYPE html>

<html>

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

<body>

<form method="post">

    <input type="text" name="name" required placeholder="Name"><br><br>

    <select name="gender">

        <option value="male">Male</option>

        <option value="female">Female</option>

        <option value="other">Other</option>

    </select><br><br>

    <input type="checkbox" name="subscribe">Subscribe<br><br>

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

</form>

</body>

</html>

Practical 18

<?php

if ($\_SERVER['REQUEST\_METHOD'] == 'POST') {

    echo "<h2>Selected Options:</h2>";

    echo "Fruit: {$\_POST['fruit']}<br>";

    echo "Color: {$\_POST['color']}<br>";

}

?>

<!DOCTYPE html>

<html>

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

<body>

<form method="post">

    <select name="fruit">

        <option>Apple</option>

        <option>Banana</option>

        <option>Cherry</option>

    </select><br><br>

    <select name="color">

        <option>Red</option>

        <option>Green</option>

        <option>Blue</option>

    </select><br><br>

    <input type="submit">

</form>

</body>

</html>

Practical 19

<?php

$errors = [];

$name = $email = '';

if ($\_SERVER['REQUEST\_METHOD'] == 'POST') {

    $name = trim($\_POST['name']);

    $email = trim($\_POST['email']);

    if (empty($name)) $errors[] = "Name is required";

    if (empty($email)) $errors[] = "Email is required";

}

?>

<!DOCTYPE html>

<html>

<head>

    <title>Simple Form</title>

</head>

<body>

    <form method="post">

        <input type="text" name="name" placeholder="Enter name"><br><br>

        <input type="email" name="email" placeholder="Enter email"><br><br>

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

        <?php if (!empty($errors)): ?>

        <?php foreach($errors as $error): ?>

        <p style="color: red"><?php echo $error; ?></p>

        <?php endforeach; ?>

        <?php endif; ?>

        <?php if (empty($errors) && $\_SERVER['REQUEST\_METHOD'] == 'POST'): ?>

        <p>Success!</p>

        <p>Name: <?php echo htmlspecialchars($name); ?></p>

        <p>Email: <?php echo htmlspecialchars($email); ?></p>

        <?php endif; ?>

    </form>

</body>

</html>

Practical 20

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Form</title>

</head>

<body>

    <form method="post">

        <input type="text" name="name" placeholder="Name"><br><br>

        <input type="text" name="email" placeholder="Email"><br><br>

        <input type="text" name="mobile" placeholder="Mobile"><br><br>

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

    </form>

    <?php

    if ($\_SERVER["REQUEST\_METHOD"] == "POST") {

        $name = trim($\_POST['name'] ?? '');

        $email = trim($\_POST['email'] ?? '');

        $mobile = trim($\_POST['mobile'] ?? '');

        $errors = [];

        if (empty($name) || !preg\_match("/^[a-zA-Z ]\*$/", $name)) {

            $errors[] = "Please enter a valid name";

        }

        if (empty($email) || !filter\_var($email, FILTER\_VALIDATE\_EMAIL)) {

            $errors[] = "Please enter a valid email";

        }

        if (empty($mobile) || !preg\_match("/^[0-9]{10}$/", $mobile)) {

            $errors[] = "Please enter a valid 10-digit mobile number";

        }

        if ($errors) {

            foreach ($errors as $error) {

                echo "<p style='color: red'>$error</p>";

            }

        } else {

            echo "<p style='color: green'>Success!</p>";

            echo "<p>Name: $name</p>";

            echo "<p>Email: $email</p>";

            echo "<p>Mobile: $mobile</p>";

        }

    }

    ?>

</body>

</html>

Practical 21

<?php

$name = "username";

$value = "computer engineering";

$expiry = time() + 3600;

echo setcookie($name, $value, $expiry) ? "Cookie '$name' set successfully."

    : "Unable to set cookie '$name'.";

?>

Practical 22

<?php

echo isset($\_COOKIE['username']) ? "The value of the 'username' cookie is: " . htmlspecialchars($\_COOKIE['username']) : "The 'username' cookie is not set.";

Practical 23

<?php

$cookie\_name = "username";

$cookie\_value = "computer engineering";

$cookie\_expiry = time() + 3600;

setcookie($cookie\_name, $cookie\_value, $cookie\_expiry);

echo "Cookie '$cookie\_name' has been set.<br>";

if (isset($\_COOKIE[$cookie\_name])) {

    echo "Cookie value: " . htmlspecialchars($\_COOKIE[$cookie\_name]) . "<br>";

}

if (isset($\_GET['delete'])) {

    setcookie($cookie\_name, '', time() - 3600, '/');

    unset($\_COOKIE[$cookie\_name]);

    echo "Cookie deleted.<br>";

} else {

    echo "<a href='?delete=1'>Delete Cookie</a><br>";

}

?>

Practical 24

<?php session\_start(); ?>

<!DOCTYPE html>

<html>

<head>

<title>Session</title>

</head>

<body>

<?php

$\_SESSION['name'] = "Kaustubh";

$\_SESSION['email'] = "kaustubhbarad@gmail.com";

?>

<p>

Name: <?php echo $\_SESSION['name']; ?><br>

Email: <?php echo $\_SESSION['email']; ?>

</p>

<?php session\_destroy(); ?>

<p>Session Destroyed</p>

</body>

</html>

Practical 25

<?php

$conn = mysqli\_connect("localhost", "root", "", "practical\_25");

if ($\_POST) {

    $sql = "INSERT INTO users (name, email) VALUES ('$\_POST[name]', '$\_POST[email]')";

    if (mysqli\_query($conn, $sql)) echo "Record saved";

}

mysqli\_close($conn);

?>

<!DOCTYPE html>

<html>

<head><title>Database Form</title></head>

<body>

    <form method="post">

        Name: <input type="text" name="name"><br><br>

        Email: <input type="email" name="email"><br><br>

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

    </form>

</body>

</html>

Practical 26

<?php

$conn = mysqli\_connect("localhost", "root", "", "practical\_25");

$result = mysqli\_query($conn, "SELECT \* FROM users");

$table\_rows = '';

while($row = mysqli\_fetch\_array($result)) {

    $table\_rows .= "<tr><td>{$row['name']}</td><td>{$row['email']}</td></tr>";

}

mysqli\_close($conn);

?>

<!DOCTYPE html>

<html>

<head><title>Records</title></head>

<body>

<table *border*='1'>

<tr><th>Name</th><th>Email</th></tr>

<?php echo $table\_rows; ?>

</table>

</body>

</html>

Practical 27

<?php

$conn = mysqli\_connect("localhost", "root", "", "practical\_25");

if($\_GET['del']) mysqli\_query($conn, "DELETE FROM users WHERE id=$\_GET[del]");

if($\_POST['upd']) mysqli\_query($conn, "UPDATE users SET name='$\_POST[name]', email='$\_POST[email]' WHERE id=$\_POST[id]");

$data = mysqli\_query($conn, "SELECT \* FROM users");

$table\_rows = '';

while($row = mysqli\_fetch\_assoc($data)) {

    $table\_rows .= '<tr>

        <form method="post">

            <input type="hidden" name="id" value="'.$row['id'].'">

            <td><input type="text" name="name" value="'.$row['name'].'"></td>

            <td><input type="email" name="email" value="'.$row['email'].'"></td>

            <td><button name="upd">Update</button> <a href="?del='.$row['id'].'">Delete</a></td>

        </form>

    </tr>';

}

mysqli\_close($conn);

?>

<!DOCTYPE html>

<html>

<head>

    <title>Update/Delete Records</title>

</head>

<body>

    <table *border*="1">

        <?php echo $table\_rows; ?>

    </table>

</body>

</html>

Practical 28

<!DOCTYPE html>

<html>

<head>

    <title>Read File</title>

</head>

<body>

    <h2>File Contents</h2>

    <div style="margin: 20px;">

        <?php

        $file = "sample.txt";

        echo file\_exists($file) ? "<p>" . file\_get\_contents($file) . "</p>" : "<p style='color: red;'>File not found!</p>";

        ?>

    </div>

</body>

</html>

Practical 29

<?php

$file = "sample.txt";

file\_put\_contents($file, "Sample content");

?>

<!DOCTYPE html>

<html>

<head>

    <title>Create File</title>

</head>

<body>

    <h2>File Creation</h2>

    <?php if(file\_exists($file)): ?>

        <p>File created successfully</p>

    <?php else: ?>

        <p>Error creating file</p>

    <?php endif; ?>

</body>

</html>

Practical 30

<?php unlink("sample.txt"); ?>

<!DOCTYPE html>

<html>

<head>

    <title>Delete File</title>

</head>

<body>

    <h2>File Deletion</h2>

    <?php if(file\_exists("sample.txt")): ?>

        <p>File exists</p>

    <?php else: ?>

        <p>File deleted</p>

    <?php endif; ?>

</body>

</html>

Practical 31

<!DOCTYPE html>

<html>

<head>

    <title>Line Count</title>

</head>

<body>

    <h2>Number of Lines in File</h2>

    <?php

    $file = "sample.txt";

    if(file\_exists($file)) {

        echo "Lines: " . count(file($file));

    } else {

        echo "File not found";

    }

    ?>

</body>

</html>

Practical 32

<?php

rename("sample.txt", "new.txt");

?>

<!DOCTYPE html>

<html>

<head>

    <title>Rename File</title>

</head>

<body>

    <h2>File Rename</h2>

    <?php if(file\_exists("new.txt")): ?>

        <p>File was successfully renamed.</p>

    <?php else: ?>

        <p>Error renaming file.</p>

    <?php endif; ?>

</body>

</html>