

1. Implement a program to create a session, update, and destroy the same session.

```
<?php

session_start();

$_SESSION['user'] = 'John';

echo 'Session created.<br>';

$_SESSION['user'] = 'Jane';

echo 'Session updated.<br>';

session_destroy();

echo 'Session destroyed.';

?>
```

2. Implement a program to use validation for following controls

a) Username

b) Email address

```
<?php

if ($_SERVER['REQUEST_METHOD'] == 'POST') {

    $username = $_POST['username'];

    $email = $_POST['email'];

    if (preg_match('/^[A-Za-z0-9_]{3,20}$/', $username)) {

        echo 'Valid Username<br>';

    } else {

        echo 'Invalid Username<br>';

    }

    if (filter_var($email, FILTER_VALIDATE_EMAIL)) {

        echo 'Valid Email';

    } else {

        echo 'Invalid Email';

    }

}
```

```
}  
  
}  
  
?>  
  
<form method='post'>  
  
Username: <input type='text' name='username'><br>  
  
Email: <input type='text' name='email'><br>  
  
<input type='submit'>  
  
</form>
```

3. Develop a PHP program to Enter data into table and Retrieve and present data from table

```
<?php  
  
$conn = mysqli_connect('localhost', 'root', '', 'mydb');  
  
if (!$conn) die('Connection failed');  
  
if ($_SERVER['REQUEST_METHOD'] == 'POST') {  
  
    $name = $_POST['name'];  
  
    $email = $_POST['email'];  
  
    mysqli_query($conn, "INSERT INTO users (name, email) VALUES ('$name', '$email')");  
  
}  
  
$result = mysqli_query($conn, 'SELECT * FROM users');  
  
while ($row = mysqli_fetch_assoc($result)) {  
  
    echo $row['name'].' - '.$row['email'].'<br>';  
  
}  
  
?>  
  
<form method='post'>  
  
Name: <input name='name'><br>  
  
Email: <input name='email'><br>  
  
<input type='submit'>
```

</form>

4. Implement a simple PHP program to create a PDF documents by using Graphics concepts.

```
<?php
```

```
require('fpdf.php');
```

```
$pdf = new FPDF();
```

```
$pdf->AddPage();
```

```
$pdf->SetFont('Arial','B',16);
```

```
$pdf->Cell(40,10,'Hello PDF with Graphics!');
```

```
$pdf->Output();
```

```
?>
```

5. Implement a PHP program to check prime number

```
<?php
```

```
$num = 7;
```

```
$prime = true;
```

```
for ($i = 2; $i <= sqrt($num); $i++) {
```

```
    if ($num % $i == 0) {
```

```
        $prime = false;
```

```
        break;
```

```
    }
```

```
}
```

```
echo $prime ? 'Prime' : 'Not Prime';
```

```
?>
```

6. Implement a simple PHP program to check that email id is valid or not.

```
<?php
```

```
$email = 'test@example.com';
```

```
echo filter_var($email, FILTER_VALIDATE_EMAIL) ? 'Valid' : 'Invalid';
```

?>

7. Implement a PHP program to demonstrate session management

```
<?php
```

```
session_start();
```

```
$_SESSION['msg'] = 'Hello';
```

```
echo $_SESSION['msg'];
```

```
session_destroy();
```

```
?>
```

8. Implement a PHP script to Implement any four String Functions

```
<?php
```

```
$str = 'Hello World';
```

```
echo strlen($str).<br>;
```

```
echo strrev($str).<br>;
```

```
echo strtoupper($str).<br>;
```

```
echo strtolower($str);
```

```
?>
```

9. Implement a PHP script to Implement eight Math Functions

```
<?php
```

```
echo abs(-5).<br>;
```

```
echo ceil(4.3).<br>;
```

```
echo floor(4.7).<br>;
```

```
echo round(3.5).<br>;
```

```
echo max(1,5,9).<br>;
```

```
echo min(2,3).<br>;
```

```
echo sqrt(16).<br>;
```

```
echo pow(2,3);
```

?>

10. Implement a PHP script to replace the first substring of the with second.

```
<?php
```

```
$str = 'Hello world';
```

```
echo preg_replace('/world/', 'PHP', $str, 1);
```

```
?>
```

11. Implement a PHP program for sending and receiving plain text message (email).

```
<?php
```

```
$to = 'someone@example.com';
```

```
$subject = 'Test';
```

```
$message = 'Hello';
```

```
$headers = 'From: webmaster@example.com';
```

```
mail($to, $subject, $message, $headers);
```

```
echo 'Mail Sent';
```

```
?>
```

12. Implement a program to check positive or negative no.

```
<?php
```

```
$num = -5;
```

```
echo $num > 0 ? 'Positive' : 'Negative';
```

```
?>
```

13. Implement a PHP code to insert data into employee table.

```
<?php
```

```
$conn = mysqli_connect('localhost', 'root', '', 'mydb');
```

```
mysqli_query($conn, "INSERT INTO employee (name) VALUES ('John')");
```

```
echo 'Inserted';
```

```
?>
```

14. Implement a PHP Program to create a login page

```
<?php

if ($_POST) {

    $user = $_POST['user'];

    $pass = $_POST['pass'];

    if ($user == 'admin' && $pass == '123') echo 'Welcome';

    else echo 'Invalid';

}

?>

<form method='post'>

User: <input name='user'><br>

Pass: <input name='pass'><br>

<input type='submit'>

</form>
```

15. Implement a Program to print each element of an array using foreach().

```
<?php

$arr = [1,2,3];

foreach ($arr as $val) {

    echo $val.<br>;

}

?>
```

16. Implement a program to show day of the week using switch

```
<?php

$day = 3;

switch ($day) {

    case 1: echo 'Monday'; break;
```

```
case 2: echo 'Tuesday'; break;

case 3: echo 'Wednesday'; break;

default: echo 'Invalid';

}

?>
```

17. Implement a PHP program factorial program using for loop in php

```
<?php

$fact = 1;

$num = 5;

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

    $fact *= $i;

}

echo $fact;

?>
```

18. Implement a PHP program simple calculator using switch case

```
<?php

$a = 10;

b = 2;

$op = '+';

switch ($op) {

    case '+': echo $a + $b; break;

    case '-': echo $a - $b; break;

    case '*': echo $a * $b; break;

    case '/': echo $a / $b; break;

}

?>
```

19. Implement a PHP program to reverse the string without string function

```
<?php

$str = 'hello';

$rev = "";

for ($i = strlen($str)-1; $i >= 0; $i--) {

    $rev .= $str[$i];

}

echo $rev;

?>
```

20. Implement a PHP program to count the words in the string

```
<?php

$str = 'Hello World Again';

echo str_word_count($str);

?>
```

21. Implement a PHP program to check entered year is Leap Year or not.

```
<?php

$year = 2024;

echo ($year % 4 == 0 && ($year % 100 != 0 || $year % 400 == 0)) ? 'Leap' : 'Not Leap';

?>
```

22. Implement a PHP program to print first 30 even number

```
<?php

for ($i = 2; $i <= 60; $i += 2) echo $i.' ';

?>
```

23. Implement a PHP program to find reverse of a number

```
<?php

$num = 123;
```



```
$rev = 0;

while ($num > 0) {

    $rev = $rev * 10 + $num % 10;

    $num = (int)($num / 10);

}

echo $rev;

?>
```

24. Implement a PHP program to implement associative array

```
<?php

$arr = ['name'=>'John', 'age'=>30];

echo $arr['name'].' - '.$arr['age'];

?>
```

25. Implement a PHP program to implode & explode functions

```
<?php

$str = 'a b c';

$arr = explode(' ', $str);

print_r($arr);

echo implode('-', $arr);

?>
```

26. Implement a PHP program to count no of words in string without string function

```
<?php

$str = 'one two three';

$count = 1;

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

    if ($str[$i] == ' ') $count++;

}
```

```
echo $count;
```

```
?>
```

27. Implement a PHP program to implement Single inheritance

```
<?php
```

```
class A {
```

```
    function show() { echo 'Base'; }
```

```
}
```

```
class B extends A {}
```

```
$obj = new B();
```

```
$obj->show();
```

```
?>
```

28. Implement a PHP program to delete 1 record from Student Database where RollNo=2

```
<?php
```

```
$conn = mysqli_connect('localhost','root','','mydb');
```

```
mysqli_query($conn, 'DELETE FROM student WHERE RollNo=2');
```

```
?>
```

29. Implement a PHP program to update 1 record from Student Database. Update name of Student having RollNo=1

```
<?php
```

```
$conn = mysqli_connect('localhost','root','','mydb');
```

```
mysqli_query($conn, "UPDATE student SET name='NewName' WHERE RollNo=1");
```

```
?>
```

30. Implement a PHP program for sending and receiving Plain text Message (email)

```
<?php
```

```
// Duplicate of Q11
```

```
?>
```

31. Implement a PHP program update and delete data in the database(assume suitable Database)

```
<?php

$conn = mysqli_connect('localhost','root','','mydb');

mysqli_query($conn, "DELETE FROM student WHERE id=1");

?>
```

32. Implement a PHP program set and modify cookies.

```
<?php

setcookie('user', 'John', time()+3600);

echo $_COOKIE['user'];

?>
```

33. Implement a PHP program any Six Method of Introspection

```
<?php

class Test {

    function getClass() {

        echo get_class($this);

    }

}

$obj = new Test();

$obj->getClass();

echo class_exists('Test');

echo method_exists($obj, 'getClass');

echo property_exists($obj, 'data');

echo is_object($obj);

echo get_class_methods('Test');

?>
```

34. Implement a PHP program insert data in the database.

```
<?php
```

```
$conn = mysqli_connect('localhost','root','','mydb');
```

```
mysqli_query($conn, "INSERT INTO users (name) VALUES ('Test')");
```

```
?>
```

35. Create a class as "Percentage" with two properties length & width. Calculate area of rectangle for two objects.

```
<?php
```

```
class Percentage {
```

```
    public $length, $width;
```

```
    function area() {
```

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

```
    }
```

```
}
```

```
$a = new Percentage();
```

```
$a->length = 5;
```

```
$a->width = 10;
```

```
echo $a->area();
```

```
?>
```

36. Implement a PHP program method overloading and overriding .

```
<?php
```

```
class A { function greet() { echo 'Hello'; } }
```

```
class B extends A { function greet() { echo 'Hi'; } }
```

```
$obj = new B();
```

```
$obj->greet();
```

```
?>
```

37. Implement a PHP program to demonstrate use of cookies.

```
<?php  
  
setcookie('user', 'John', time()+3600);  
  
echo $_COOKIE['user'];  
  
?>
```

38. Implement a PHP program PDF document in PHP with image

```
<?php  
  
require('fpdf.php');  
  
$pdf = new FPDF();  
  
$pdf->AddPage();  
  
$pdf->Image('logo.png',10,10,30);  
  
$pdf->Output();  
  
?>
```

39. Implement a PHP program to

(i) Enter data into database

(ii) Retrieve and present data from database

```
<?php  
  
// Combined from Q3  
  
?>
```

40. Implement a PHP program Employee form like employee_name, Address, Mobile_No., Date of birth, Post and Salary using different form input element and display user inserted values in new PHP form.

```
<?php  
  
if ($_POST) {  
  
    echo 'Name: '.$_POST['name'];  
  
}  
  
?>  
  
<form method='post'>
```

Name: <input name='name'>

<input type='submit'>

</form>