1. Write a PHP program to create a simple webpage.

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Welcome to my webpage!

2.Write a PHP program to display the current date and time.

Source code:

<!php

echo "Current date and time: " . date("Y-m-d H:i:s a");

?>

Current date and time: 2023-03-18 12:01:38 am

3. Create a PHP program using if else conditional statement.

```
<!DOCTYPE html>
<html>
<head>
      <title>If Else Example</title>
</head>
<body>
<form method="post" action="<?php echo</pre>
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
             <label for="number">Enter a number:</label>
             <input type="number" id="number" name="number">
             <input type="submit" value="Check">
      </form>
      <?php
             if ($_SERVER["REQUEST_METHOD"] == "POST") {
                    $number = $ POST["number"];
                    if (\text{number} > 0) {
                           echo "$number is a positive number.";
                    } else {
                           echo "$number is a negative number.";
             }
      ?>
</body>
</html>
```

| Output:                                 |       |
|---|-------|
| Enter a number: [<br>15 is a positive n | Check |

4. Create a PHP program using nested if conditional statement.

```
<!DOCTYPE html>
<html>
<head>
      <title>Nested If Example</title>
</head>
<body>
      <?php
             if ($_SERVER["REQUEST_METHOD"] == "POST") {
                    $age = $ POST["age"];
                    if (se >= 18) {
                           echo "You are an adult.";
                           if (se >= 65) {
                                  echo " You are also a senior citizen.";
                           }
                    } else {
                           echo "You are a minor.";
                    }
             }
      ?>
      <form method="post" action="<?php echo</pre>
htmlspecialchars($ SERVER["PHP SELF"]);?>">
             <label for="age">Enter your age:</label>
             <input type="number" id="age" name="age">
             <input type="submit" value="Check">
      </form>
</body>
</html>
```

| Output:          |       |
|------------------|-------|
| You are a minor. |       |
| Enter your age:  | Check |

5. Create a PHP program using switch statement.

</form>

</body>

```
Source code:
<!DOCTYPE html>
<html>
<head>
       <title>Switch Example</title>
</head>
<body>
       <?php
             if ($ SERVER["REQUEST_METHOD"] == "POST") {
              $grade = $_POST["grade"];
                    switch ($grade) {
                            case "A"://to add smaller case use another case "a"
                                  echo "Excellent!";
                                  break;
                            case "B":
                                  echo "Good job!";
                                  break;
                            case "C":
                                   echo "You could do better.";
                            case "D":
                                   echo "You need to work harder.";
                            case "F":
                                   echo "You failed.";
                                  break;
                           default:
                                   echo "Invalid grade entered.";
                     }
              }
       ?>
       <form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
              <label for="grade">Enter your grade:</label>
              <input type="text" id="grade" name="grade">
             <input type="submit" value="Check">
```

| Output:           |       |
|-------------------|-------|
| You failed.       |       |
| Enter your grade: | Check |

6.Create a PHP program using while loop statement.

```
Source code:
<!DOCTYPE html>
<html>
<head>
      <title>While Loop Example</title>
</head>
<body>
      <?php
             if ($_SERVER["REQUEST_METHOD"] == "POST") {
                    $countdown = $ POST["countdown"];
                    while (scountdown > 0) {
                          echo $countdown . "<br>";
                          $countdown--;
                    }
             }
      ?>
      <form method="post" action="<?php echo</pre>
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
             <label for="countdown">Enter a number to count down from:</label>
             <input type="number" id="countdown" name="countdown">
             <input type="submit" value="Start Countdown">
      </form>
</body>
</html>
```

| Output:                            |                 |
|------------------------------------|-----------------|
| 5                                  |                 |
| 4                                  |                 |
| 3                                  |                 |
| 2                                  |                 |
| 1                                  |                 |
| Enter a number to count down from: | Start Countdown |

7.Create a PHP program using do while loop statement.

```
<!DOCTYPE html>
<html>
<head>
      <title>Do While Loop Example</title>
</head>
<body>
<form method="post" action="<?php echo</pre>
htmlspecialchars($ SERVER["PHP SELF"]);?>">
             <label for="number">Enter a number to calculate its factorial:</label>
             <input type="number" id="number" name="number">
             <input type="submit" value="Calculate">
</form>
      <?php
             if ($_SERVER["REQUEST_METHOD"] == "POST") {
                   $number = $ POST["number"];
                   factorial = 1;
                   i = 1;
                   do {
                          $factorial *= $i;
                          $i++;
                    echo "The factorial of " . $number . " is " . $factorial;
             }
      ?>
</body>
</html>
```

Enter a number to calculate its factorial: 5 Calculate
The factorial of 5 is 120

8. Create a PHP program using for loop statement.

```
Source code:
<!DOCTYPE html>
<html>
<head>
      <title>For Loop Example</title>
</head>
<body>
      <?php
             if ($ SERVER["REQUEST_METHOD"] == "POST") {
                    $number = $ POST["number"];
                    sum = 0;
                    for (\$i = 1; \$i \le \$number; \$i++) 
                           sum += i;
                    }
                    echo "The sum of all numbers between 1 to " . $number . " is " . $sum;
             }
      ?>
      <form method="post" action="<?php echo</pre>
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
             <label for="number">Enter a number:</label>
             <input type="number" id="number" name="number">
             <input type="submit" value="Calculate Sum">
      </form>
</body>
</html>
```

| Output:                                    |               |
|--|---------------|
| The sum of all numbers between 1 to 3 is 6 |               |
| Enter a number:                            | Calculate Sum |

9. Create a PHP program using for each statement.

```
<!DOCTYPE html>
<html>
<head>
      <title>Foreach Loop Example</title>
</head>
<body>
      <?php
             if ($ SERVER["REQUEST METHOD"] == "POST") {
                    $input = $ POST["input"];
                    $numbers = explode(",", $input);
                    echo "<h2>Input Values:</h2>";
                    foreach ($numbers as $num) {
                           echo $num . "<br>";
                    }
             }
      ?>
      <form method="post" action="<?php echo</pre>
htmlspecialchars($ SERVER["PHP SELF"]);?>">
             <label for="input">Enter comma-separated values:</label>
             <input type="text" id="input" name="input">
             <input type="submit" value="Submit">
      </form>
</body>
</html>
```

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# Input Values:

Enter comma-separated values: Submit 10. Write a PHP program to display a numerical array.

```
<!DOCTYPE html>
<html>
<head>
      <title>Numerical Array Example</title>
</head>
<body>
      <?php
             if ($ SERVER["REQUEST METHOD"] == "POST") {
                    $input = $ POST["input"];
                    $numbers = explode(",", $input);
                    echo "<h2>Array Values:</h2>";
                    foreach ($numbers as $number) {
                           echo $number . "<br>";
                    }
             }
      ?>
      <form method="post" action="<?php echo</pre>
htmlspecialchars($ SERVER["PHP SELF"]);?>">
             <label for="input">Enter comma-separated numbers:</label>
             <input type="text" id="input" name="input">
             <input type="submit" value="Submit">
      </form>
</body>
</html>
```

# **Array Values:**

3 5 4

Enter comma-separated numbers: Submit

11. Write a PHP program to display an associative array.

```
<?php
// Check if form was submitted
if ($ SERVER["REQUEST METHOD"] == "POST") {
      // Get input from form
      $keys = explode(",", $ POST["keys"]);
      $values = explode(",",$_POST["values"]);
      // Combine input into associative array
      $array = array combine($keys, $values);
      // Display resulting array
      echo "<h2>Resulting Associative Array:</h2>";
      echo "";
      print r($array);
      echo "";
?>
<!-- Display input form -->
<h2>Enter Key-Value Pairs for Associative Array:</h2>
<form method="post">
      <label for="keys">Keys (comma-separated):</label><br>
      <input type="text" id="keys" name="keys"><br>
      <label for="values">Values (comma-separated):</label><br>
      <input type="text" id="values" name="values"><br><br>
      <input type="submit" value="Submit">
</form>
</body>
</html>
```

## Resulting Associative Array:

```
Array
(
    [car] => bmw
    [bike] => pulsur
    [boat] => speed
)
```

## Enter Key-Value Pairs for Associative Array:

Keys (comma-separated):

car,bike,boat

Values (comma-separated):

bmw,pulsur,speed

Submit

12. Write a PHP program to display a multidimensional array.

```
<html>
 <head>
   <title>Multi-Dimensional Array Example</title>
 </head>
 <body>
<form method="post">
     <label for="input">Enter multi-dimensional array:(example:red,blue,green
[enter])</label><br>
     <textarea id="input" name="input" rows="10" cols="50"></textarea><br>
     <input type="submit" value="Submit">
  </form>
   <?php
     // Check if form was submitted
     if($ SERVER["REQUEST METHOD"] == "POST") {
      // Get input from user
       $input = $ POST['input'];
      // Convert input string to array
       arr = array();
      $lines = explode("\n", $input);
       foreach ($lines as $line) {
        $arr[] = explode(",", $line);
       }
      // Display array
       echo "";
      print r($arr);
       echo "";
   ?>
     </body>
</html>
```

13. Write a PHP program to sort an array element.

```
Source code:
<!DOCTYPE html>
<html>
<head>
      <title>Sort Array</title>
</head>
<body>
<h2>Sort Array</h2>
             <form method="post" action="<?php echo</pre>
             htmlspecialchars($_SERVER["PHP SELF"]);?>">
             <label for="numbers">Enter comma-separated numbers:
             <input type="text" id="numbers" name="numbers"><br><br>
             <input type="submit" value="Sort">
</form>
<?php
      // Check if form was submitted
      if ($ SERVER["REQUEST METHOD"] == "POST") {
             // Retrieve form data using $ POST
             $numbers = $ POST["numbers"];
             // Convert input to array
             $numbers array = explode(",", $numbers);
             // Trim whitespace from each number
             $numbers_array = array_map('trim', $numbers_array);
             // Convert each number to integer
             $numbers array = array map('intval', $numbers array);
             // Sort the array in ascending order
             sort($numbers_array);
             // Output the sorted array
             echo "<h3>Sorted Numbers:</h3>";
             echo implode(", ", $numbers array);
      ?>
```

</body>

Output:

# Sort Array

Enter comma-separated numbers: 9,6,8,2,4,3,1,2

Sort

#### Sorted Numbers:

1, 2, 2, 3, 4, 6, 8, 9

14. Write a PHP program to illustrate session.

?>

Deckard

Session created

15. Write a PHP program to illustrate cookies.

```
// Set the cookie with a name, value, expiration time, and path
setcookie("username", "John", time() + 3600, "/");

// Output a message if the cookie is set
if (isset($_COOKIE["username"])) {
        echo "Welcome " . $_COOKIE["username"] . "!<br/>";
} else {
        echo "Please set a cookie first.<br/>";
}

// Update the cookie value
setcookie("username", "Jane", time() + 30, "/");

// Output the updated cookie value
echo "Your username has been updated to " . $_COOKIE["username"] . ".";

?>
```

Welcome Jane!

Your username has been updated to Jane.

16. Write a PHP program to illustrate file manipulation.

Source code:

```
<?php

// Create a new file and write some text to it

$file = fopen("example.txt", "w");
fwrite($file, "Hello, world!\n");
fclose($file);

// Read the contents of the file and output them to the user
$file = fopen("example.txt", "r");
echo fread($file, filesize("example.txt"));
fclose($file);</pre>
```

?>

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Hello world!

17. Create a simple application using the post method.

Source code:

#### 1.postexample.html

#### 2.post.php:

```
<?php
    if ($_SERVER['REQUEST_METHOD'] == 'POST') {
        $name = $_POST['name'];
        echo "<p>hello, $name!";
}
```

# Post Example

| Name:  | john |
|--------|------|
| Submit |      |

Hello, john!

18.Create a simple application using the get method.

Source code:

#### 1.get.php

```
<?php
     if (isset($_GET['submit'])) {
          $name = $_GET['name'];
          echo "<p>Hello, $name!";
     }
?>
```

#### 2.getexample.html:

# **Get Example**

| Name:  | <u>Eren</u> |
|--------|-------------|
| Submit |             |

Hello , Eren!

19. Create an application with input validations.

```
Source code:
<!DOCTYPE html>
<html>
<head>
       <title>Login Form</title>
<style>
.error{color:red}
</style>
</head>
<body>
       <?php
              $emailErr = $passwordErr = "";
             $email = $password = "";
              if ($ SERVER["REQUEST METHOD"] == "POST") {
                     if (empty($_POST["email"])) {
                            $emailErr = "Email is required";
                     } else {
                            $email = test input($ POST["email"]);
                            if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
                                   $emailErr = "Invalid email format";
                            }
                     }
                     if (empty($_POST["password"])) {
                            $passwordErr = "Password is required";
                     } else {
                            $password = test input($_POST["password"]);
                            if (strlen($password) < 8) {
                                   $passwordErr = "Password must be at least 8 characters
long";
                            }
                     }
              }
              function test_input($data) {
                     data = trim(data);
```

```
$data = stripslashes($data);
                    $data = htmlspecialchars($data);
                    return $data;
             }
      ?>
      <h2>Login Form</h2>
      <form method="post" action="<?php echo</pre>
htmlspecialchars($ SERVER["PHP SELF"]);?>">
             <label>Email:</label>
             <input type="text" name="email" value="<?php echo $email;?>">
             <span class="error">* <?php echo $emailErr;?></span>
             <br>><br>>
             <label>Password:</label>
             <input type="password" name="password">
             <span class="error">* <?php echo $passwordErr;?></span>
             <br/>br><br/>>
             <input type="submit" name="submit" value="Submit">
      </form>
      <?php
             if ($emailErr == "" && $passwordErr == "" && isset($ POST["submit"])) {
                    echo "<h2>Login Details:</h2>";
                    echo "Email: $email";
                    echo "Password: $password";
             }
      ?>
</body>
</html>
```

## Login Form

| Email:    | * |   |
|-----------|---|---|
| Password: |   | * |
| Submit    |   |   |

# Login Details:

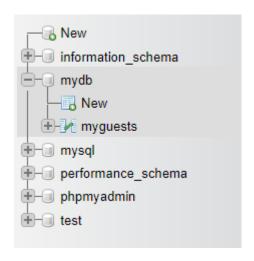
Email: rick@gmail.com

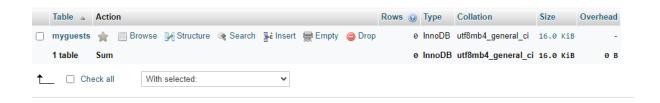
Password: 123321456

20. Create a table in PHP using MYSQL connectivity.

```
Source code:
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "myDB";
// Create connection
$conn = mysqli connect($servername, $username, $password, $dbname);
// Check connection
if (!$conn) {
 die("Connection failed: " . mysqli_connect_error());
}
// sql to create table
$sql = "CREATE TABLE MyGuests (
id INT(6) UNSIGNED AUTO INCREMENT PRIMARY KEY,
firstname VARCHAR(30) NOT NULL,
lastname VARCHAR(30) NOT NULL,
email VARCHAR(50),
salary INT(25),
reg date TIMESTAMP DEFAULT CURRENT TIMESTAMP ON UPDATE
CURRENT_TIMESTAMP
)";
if (mysqli query($conn, $sql)) {
 echo "Table MyGuests created successfully";
} else {
 echo "Error creating table: " . mysqli_error($conn);
}
mysqli_close($conn);
?>
```

Table MyGuests created successfully

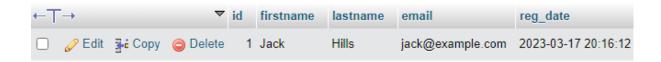




21. Write a PHP program to insert row in table using MYSQL connectivity.

```
Source code:
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "myDB";
// Create connection
$conn = mysqli connect($servername, $username, $password, $dbname);
// Check connection
if (!$conn) {
 die("Connection failed: " . mysqli_connect_error());
$sql = "INSERT INTO MyGuests (firstname, lastname, email, salary)
VALUES ('John', 'Doe', 'john@example.com','25000')";
if (mysqli_query($conn, $sql)) {
 $last id = mysqli insert id($conn);
 echo "New record created successfully. Last inserted ID is: " . $last id;
} else {
 echo "Error: " . $sql . "<br>" . mysqli_error($conn);
mysqli close($conn);
?>
```

New records created successfully



22. Write a PHP program to delete row in a table using MYSQL connectivity.

```
Source code:
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "myDB";
// Create connection
$conn = mysqli_connect($servername, $username, $password, $dbname);
// Check connection
if (!$conn) {
 die("Connection failed: " . mysqli_connect_error());
}
// sql to delete a record
$sql = "DELETE FROM MyGuests WHERE id=2";
if (mysqli_query($conn, $sql)) {
 echo "Record deleted successfully";
} else {
 echo "Error deleting record: " . mysqli_error($conn);
}
```

mysqli close(\$conn);

?>

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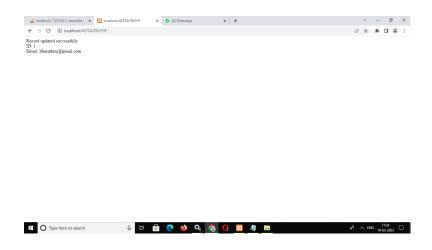
Record deleted successfully

23. Write a PHP program to update and display the table using MYSQL connectivity.

Source code:

```
<?php
// Connect to database
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "example";
$conn = mysqli connect($servername, $username, $password, $dbname);
// Check connection
if (!$conn) {
die("Connection failed: " . mysqli_connect_error());
// Update an existing row
$sql = "UPDATE users SET email='bharathraj@gmail.com' WHERE id=1";
if (mysqli query($conn, $sql)) {
echo "Record updated successfully"."<br/>';
} else {
echo "Error updating record: " . mysqli error($conn);
// Display the updated row
$sql = "SELECT * FROM users WHERE id=1";
$result = mysqli query($conn, $sql);
if (mysqli num rows(\$result) > 0) {
$row = mysqli fetch assoc($result);
echo "ID: " . $row["id"] . "<br>";
echo "Name: " . $row["firstname"] . "<br/>;
echo "Email: " . $row["email"] . "<br>";
} else {
echo "0 results";
// Close connection
mysqli close($conn);
```

#### Record updated successfully



24. Create a PHP program to apply any two aggregate functions using MYSQL connectivity.

```
Source code:
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "myDB";
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect error) {
  die("Connection failed: " . $conn->connect_error);
}
// Example aggregate functions: COUNT() and MAX()
$sql = "SELECT COUNT(*) AS total rows, MAX(salary) AS max salary FROM
myguests";
$result = $conn->query($sql);
if (\frac{\text{sresult->num rows}}{0}) {
  // output data of each row
  while($row = $result->fetch assoc()) {
    echo "Total number of rows: " . $row["total_rows"]. "<br>";
    echo "Maximum salary: " . $row["max salary"]. "<br/>';
  }
} else {
  echo "0 results";
$conn->close();
?>
```

Total number of rows: 3 Maximum salary: 50000

25...Create a PHP program to search a record using MYSQL connectivity.

```
Source code:
<?php
if ($ SERVER["REQUEST METHOD"] == "POST") {
 // Get search keyword from user input
 if (isset($ POST['searchKeyword'])) {
   $searchKeyword = $_POST['searchKeyword'];
 } else {
   // Show a message to the user if the searchKeyword parameter is not set
   echo "Please enter a search keyword";
   exit();
 }
 $servername = "localhost";
 $username = "root";
 password = "";
 $dbname = "myDB";
 // Create connection
 $conn = new mysqli($servername, $username, $password, $dbname);
 // Check connection
 if ($conn->connect error) {
   die("Connection failed: " . $conn->connect_error);
 }
 // Prepare SQL query
 $sql = "SELECT * FROM myguests WHERE firstname LIKE '%$searchKeyword%' OR
email LIKE '%$searchKeyword%' OR id LIKE '%$searchKeyword%'";
 // Execute query
 $result = $conn->query($sql);
 if (\frac{\text{sresult->num rows}}{0}) {
   // Output data of each row
   while($row = $result->fetch assoc()) {
     echo "id: " . $row["id"]. "<br>";
```

```
echo "Name: " . $row["firstname"]. "<br>";
echo "Email: " . $row["email"]. "<br>";
echo "Salary: " . $row["salary"]. "<br>";
echo "Registration Date: " . $row["reg_date"]. "<br>";
echo "<br/>echo "<br/>o'results";
}
} else {
echo "0 results";
}
$conn->close();
}
?>
</form method="post">
<label for="searchKeyword">Search keyword:</label>
<input type="text" name="searchKeyword" id="searchKeyword">
<buton type="submit">Search</button>
</form>
```

id: 3

Name: Julie

Email: julie@example.com Salary: 50000 Registration Date: 2023-03-17 20:32:18

Search keyword: Search