16. Write a program for Mouse event using JavaScript

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Mouse Event</title>
</head>
<body>
    <p id="mypara">Lorem ipsum, dolor sit amet consectetur adipisicing elit.
Ipsam at ipsum aspernatur itaque velit quisquam quas fuga laboriosam, hic
ducimus dolor qui sunt, quaerat commodi non ut, iure labore esse.
    Recusandae excepturi consectetur quia, ipsa, maxime dolore provident
incidunt nam alias, similique ex nihil ad temporibus eum aliquid adipisci vel
inventore sint? Voluptas amet omnis corporis, perferendis dolore modi
delectus.
</p>
    <br><br>
    <button id="btn1">Click me</button>
    <script>
        mypara.onmouseover = (e)=>{
            mypara.style.color="red";
        }

        mypara.onmouseleave = (e) =>{
            mypara.style.color = "black";
        }
        btn1.ondblclick = (e) =>{
            alert("You have clicked the button twice");
        }

    </script>
</body>
</html>
```

17. Write a program for Click event using JavaScript.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <!-- <link rel="stylesheet" href="style.css"> -->
    <title>Events in Js</title>
</head>
<body>
    <button id = "btn1" type="button" style="margin-left: 50%; margin-top:
200px;">Click me event</button>
```

```
    <script>
      btn1.onclick = (e) =>{
        alert("You have Clicked the button")
      }
    </script>
</body>
</html>
```

18. Write a program for Focus event using JavaScript.

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

<h2>The focus and blur Events</h2>

<form id="myForm">
  <input type="text" id="myInput">
</form>

<script>

myForm.addEventListener("focus", myFocusFunction, true);
myForm.addEventListener("blur", myBlurFunction, true);

function myFocusFunction() {
  document.getElementById("myInput").style.backgroundColor = "yellow";
}

function myBlurFunction() {
  document.getElementById("myInput").style.backgroundColor = "";
}
</script>

</body>
</html>
```

19. Write a program for windows event using JavaScript.

```
<!DOCTYPE html>
<html>
<head>
  <title>Window Event Example</title>
</head>
<body>

<h1>Click anywhere on the window</h1>

<script>
  window.addEventListener("click", () => {
    alert("You clicked the window!");
  });
</script>

</body>
</html>
```

20. Write a program for validating HTML form inputs using JavaScript.

script

```
<script>
        // Filename - script.js
function Validation() {
    const name =
        document.forms.RegForm.Name.value;
    const email =
        document.forms.RegForm.EMail.value;
    const what =
        document.forms.RegForm.Subject.value;
    const password =
        document.forms.RegForm.Password.value;
    const address =
        document.forms.RegForm.Address.value;

    console.log(name, email, what, password, address);

    if (name === ""
        || name.includes('0') || name.includes('1')
        || name.includes('2') || name.includes('3')
```

```
        || name.includes('4') || name.includes('5')
        || name.includes('6') || name.includes('7')
        || name.includes('8') || name.includes('9')) {
        window.alert
            ("Please enter your name properly.");
        name.focus();
        return false;
    }

    if (address === "") {
        window.alert
            ("Please enter your address.");
        address.focus();
        return false;
    }

    if (email === "" || !email.includes('@')) {
        window.alert
            ("Please enter a valid e-mail address.");
        email.focus();
        return false;
    }

    if (password.length !== 8) {
        alert("Password should be exactly 8 characters long.");
        return false;
    }

    if (!/[A-Z]/.test(password) || !/[a-z]/.test(password) ||
!/\d/.test(password) || !/[!@#$%^&*()_+\-
=\[\]{};':"\\|,.<>\/?]/.test(password)) {
        alert("Please enter a strong password containing at least one
uppercase letter, one lowercase letter, one digit, and one special
character.");
        return false;
    }

    if (what.selectedIndex === -1) {
        alert("Please enter your course.");
        what.focus();
        return false;
    }

    return true;
}

    </script>
```

21. Write a program for designing simple application using React.js.

```
import React, { useState } from 'react'; // Import useState for state
management

function App() {
  const [count, setCount] = useState(0); // Initialize count state variable

  const handleClick = () => {
    setCount(count + 1); // Increase count on button click
  };

  return (
    <div className="App">
      <h1>My Simple Counter</h1>
      <p>You clicked {count} times</p>
      <button onClick={handleClick}>Click me</button>
    </div>
  );
}

export default App;
```

22. Write a program for associative array using PHP.

```
<?php
    $student_one = array("Maths"=>90, "chemistry"=>89, "Biology"=>86,
"Physics"=>76);

    echo "Marks for student one is = \n";
    echo "Chemistry : ". $student_one["chemistry"],"\n";
    echo "Biology : ". $student_one["Biology"],"\n";
    echo "Physics : ". $student_one["Physics"],"\n";

?>
```

23. Write a program for demonstrating any five array functions using PHP.

```
<?php
    $arr = array(5,8,9,2,3,0,1);
    // sort function - sort the array
    sort($arr);
    print_r($arr);
    echo "\n";

    // array_intersect_key - return mathcing key from first array
```

```php
    $array1 = array("1" => "aakash", "2" => "rishav", "3" => "gaurav");
    $array2 = array("1" => "shyam", "2" => "rishi", "5" => "rishav");
    $array3 = array("1" => "aakash", "4" => "raghav", "2" => "ravi");

    print_r(array_intersect_key($array1, $array2, $array3));

    // count - returns no. of elements in array
    print_r(count($arr));
    echo "\n";

    // push
    print_r(array_push($arr,89,78));
    print_r($arr);

    // pop
    print_r(array_pop($arr));
    print_r($arr);

    // search
    print_r(array_search("aakash",$array1));


    // replace

    $array = array("vasu","sakshi","kashish");
    $name1 = array(1 => "rohit");
    $name2 = array(0 => "abhay");

    $res_array = array_replace($array, $name1, $name2);
    print_r($res_array);
?>
```

24. Write a program for class and objects using PHP.

```php
<?php
class Fruit {
  // Properties
  public $name;

  // Methods
  function set_name($name) {
    $this->name = $name;
  }
  function get_name() {
    return $this->name;
  }
}
```

```php
$apple = new Fruit();
$banana = new Fruit();
$apple->set_name('Apple');
$banana->set_name('Banana');

echo $apple->get_name();
echo "<br>";
echo $banana->get_name();
?>
```

25. Write a program for getting form input using $_POST.

HTML

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Simple Form</title>
</head>
<body>
    <form action="post_method.php" method="post">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required>
        <br>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>
        <br>
        <input type="submit" value="Submit">
    </form>
</body>
</html>
```

PHP

```php
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = $_POST['name'];
    $email = $_POST['email'];
    echo "Name: " . $name . "<br>";
    echo "Email: " . $email;
} else {
    echo "Form not submitted.";}
?>
```

26. Write a program for getting form input using $_GET.

HTML

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>GET Form Example</title>
</head>
<body>
    <form action="get_method.php" method="get">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name">
        <br><br>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email">
        <br><br>
        <input type="submit" value="Submit">
    </form>
</body>
</html>
```

PHP

```php
<?php
// Check if the form was submitted
if (isset($_GET['name']) && isset($_GET['email'])) {
    // Retrieve the form data
    $name = $_GET['name'];
    $email = $_GET['email'];

    // Display the form data
    echo "Name: " . $name . "<br>";
    echo "Email: " . $email . "<br>";
} else {
    echo "Form data not submitted!";
}
?>
```

27. Write a program for uploading the file using $_FILES.

HTML

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

    <form action="file_uploads.php" method="post" enctype="multipart/form-
data">
        Select File:
        <input type="file" name="fileToUpload"/>
        <input type="submit" value="Upload File" name="submit"/>
    </form>

</body>
</html>
```

PHP

```
<?php
$target_path = "C:/xampp/htdocs/WT External/";
$target_path = $target_path.basename( $_FILES['fileToUpload']['name']);

if(move_uploaded_file($_FILES['fileToUpload']['tmp_name'], $target_path))
{
    echo "File uploaded successfully!";
} else{
    echo "Sorry, file not uploaded, please try again!";
}
?>
```

28. Write a program for storing and retrieving values from the session using PHP.

STORE

```
<?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>
```

RETRIEVE

```
<?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>
```

29. Write a program for storing and retrieving values from the cookies using PHP.

```
<?php
// Store a value in a cookie
$value = "Kashish Jadhav";
setcookie("my_cookie", $value, time() + (86400 * 30), "/"); // 86400 = 1
day

// Retrieve the value from the cookie
if(isset($_COOKIE["my_cookie"])) {
    $stored_value = $_COOKIE["my_cookie"];
    echo "Value retrieved from cookie: " . $stored_value;
} else {
    echo "Cookie not set.";
}
?>
```

30. Write a program for inserting value into the database using PHP.

```php
<?php
    include("connect.php");
    error_reporting(0);
?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Insert values in databse</title>
</head>
<body>

    <form action="" method="GET">
        Roll No <input type="text" name="rollno" values=""><br><br>
        Name <input type="text" name="studentname" values=""><br><br>
        Class <input type="text" name="class" values=""><br><br>
        <input type="submit" name = "submit" values= "Submit">
    </form>

    <?php
    if ($_GET['submit']) {
    $rn = $_GET['rollno'];
    $nm = $_GET['studentname'];
    $cl = $_GET['class'];

    // **Combine conditions:**
    if (!empty($rn) && !empty($nm) && !empty($cl)) { // Use empty() for
stricter check
        $query = "INSERT INTO STUDENTDATA VALUES('$rn', '$nm', '$cl')";
        $data = mysqli_query($con, $query);

        if ($data) {
            echo "Data inserted Successfully";
        } else {
            echo "Error inserting data: " . mysqli_error($con); // Handle
insertion error
        }
    } else {
        echo "All fields are required";
    }
}
?>
</body>
</html>
```

31. Write a program for fetching the values from the database using select query.

```php
<?php
    include("connect.php");
    error_reporting(0);
    $query = "SELECT * FROM STUDENTDATA";
    $data = mysqli_query($con,$query);
    $total = mysqli_num_rows($data);


    if($total != 0){
    ?>
        <table>
            <tr>
                <th>Roll No</th>
                <th>Name</th>
                <th>Class</th>
            </tr>

    <?php
        while($result = mysqli_fetch_assoc($data)){
            echo "<tr>
            <td>".$result['rollno']."</td>
            <td>".$result['studentname']."</td>
            <td>".$result['class']."</td>
        </tr>";
        }
    }else{
            echo "Table has no records";
    }
?>
</table>
```