

JS

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Form Validation</title>
</head>
<body>
<h1>Form Registration</h1>
<form action="#" name="forms" onsubmit="return validate()">
<label for="name">Name:</label>
<input type="text" name="name" id="name"> <br> <br>
<label for="age">Age:</label>
<input type="age" name="age" id="age"> <br> <br>
<label for="pass">Password:</label>
<input type="password" name="pass" id="pass"> <br> <br>
<label for="cpass">Confirm Password:</label>
<input type="password" name="cpass" id="cpass"> <br> <br>
<label for="ph">Mobile no:</label>
<input type="text" name="ph" id="ph"> <br> <br>
<label for="email">Email:</label>
<input type="text" name="email" id="email"> <br> <br>
<input type="submit" value="submit">
<script>
function nameValid()
{
let name = document.forms.name.value;
let nameReg = new RegExp("^[a-zA-Z]+$");
if(!nameReg.exec(name))
{
alert("field cannot be empty and name should contain alphabets only");
return false;
}
return true;
}
function ageValid()
{
let age = document.forms.age.value;
if(isNaN(age))
{
alert("Age should be numeric value only");
return false;
}
return true;
}
function passwordvalid()
{
let pass = document.forms.pass.value;
let cpass = document.forms.cpass.value;
if(pass != cpass || pass.length < 6)
```

```
function calculateSquare() {  
  const number = parseFloat(document.getElementById("number").value);  
  const square = number * number;  
  document.getElementById("result").textContent = `Square: ${square}`; //html <div id=result></div>  
  // if input text is used then .value instead  
  // of .textContent  
}
```

```

function calculateCube() {
  const number = parseFloat(document.getElementById("number").value);
  const cube = number * number * number;
  document.getElementById("result").textContent = `Cube: ${cube}`;
}

const squareButton = document.getElementById("squareButton");
squareButton.addEventListener("click", calculateSquare);    <button id="squareButton">Calculate Square</button>

const cubeButton = document.getElementById("cubeButton");
cubeButton.addEventListener("click", calculateCube);

```

Student percentage calculation

```

function calculatePercentage() {
  const usn = document.getElementById("usn").value;
  const branch = document.getElementById("branch").value;
  const name = document.getElementById("name").value;
  const subject1 = parseFloat(document.getElementById("subject1").value);
  const subject2 = parseFloat(document.getElementById("subject2").value);
  const subject3 = parseFloat(document.getElementById("subject3").value);

  // Input validation (optional)
  if (isNaN(subject1) || isNaN(subject2) || isNaN(subject3)) {
    alert("Please enter valid marks!");
    return;
  }

  const totalMarks = subject1 + subject2 + subject3;
  const percentage = (totalMarks / 300) * 100;

  const output = `
    USN: ${usn}
    Branch: ${branch}

```

Name: \${name}
Subject 1: \${subject1}
Subject 2: \${subject2}
Subject 3: \${subject3}
Total Marks: \${totalMarks}
Percentage: \${percentage.toFixed(2)}%

```
`;  
  
document.getElementById("result").textContent = output;  
  
}  
  
const calculateButton = document.getElementById("calculateButton");  
  
calculateButton.addEventListener("click", calculatePercentage);
```

PHP

Connection

```
<?php  
$servername = "localhost";  
$username = "student";  
$password = "student";  
$database = "student";  
$conn = mysqli_connect($servername, $username, $password, $database);  
if (!$conn) {  
die("Connection failed: " . mysqli_connect_error());  
} else {  
echo "Connected successfully<br>";  
}
```

Dropping the table

```
$droptable = "DROP TABLE IF EXISTS acctholder";  
if ($conn->query($droptable) === TRUE) {  
echo "Table deleted successfully<br>";  
} else {  
echo "Error deleting table: " . $conn->error ;  
}
```

Creating a table

```
$sql = "CREATE TABLE acctholder  
(  
accno INT PRIMARY KEY,  
fname VARCHAR(10),  
lname VARCHAR(10),  
acctpe VARCHAR(10),  
balance REAL,  
pno INT  
)";  
if ($conn->query($sql) === TRUE) {  
echo "Table created<br>";  
} else {  
echo "Error creating table: " . $conn->error ;  
}
```

Inserting a values

```
$sql2_insert_values = "INSERT INTO acctholder VALUES
(1001, 'John1', 'Doe', 'savings', 5000, 900001),
(1002, 'John2', 'Doe', 'savings', 5000, 900002),
(1003, 'John3', 'Doe', 'savings', 5000, 900003),
(1004, 'John4', 'Doe', 'savings', 5000, 900004),
(1005, 'John5', 'Doe', 'savings', 5000, 900005)";
if (mysqli_query($conn, $sql2_insert_values)) {
echo "Records inserted successfully<br>";
}
else {
echo "Error inserting records: " . mysqli_error($conn) . "<br>";
}
```

Updating the values

```
$sql4 = "UPDATE acctholder SET lname='Rao' WHERE accno=1001";
if (mysqli_query($conn, $sql4)) {
echo "Record updated successfully<br>";
}
else {
echo "Error updating record: " . mysqli_error($conn) . "<br>";
}
```

Deleting the table

```
$sql3 = "DELETE FROM acctholder WHERE accno=1002";
if (mysqli_query($conn, $sql3)) {
echo "Record deleted successfully<br>";
} else {
echo "Error deleting record: " . mysqli_error($conn) . "<br>";
}
```

Selecting the table

```
$query = mysqli_query($conn, "SELECT * FROM acctholder");
while ($data = mysqli_fetch_array($query)) {
echo $data["accno"] . "<br>";
}

$conn->close();
?>
```

Accept the roll no and name

<?php

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {    if(isset($_POST['submit']))

    $rollNo = $_POST["rollNo"];

    $name = $_POST["name"];
```

```

// Display submitted values

echo "Roll No: $rollNo <br>";

echo "Name: $name";
} else {

    // Display the form
?>

<form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>">

    Roll No: <input type="text" name="rollNo" required><br>

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

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

</form>

<?php
}
?>

```

Program to fetch the record from mysql

```

<?php

$servername = "localhost";

$username = "your_username";

$password = "your_password";

$dbname = "your_database_name";

$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {

    die("Connection failed: " . $conn->connect_error);

}

$sql = "SELECT * FROM your_table_name";

$result = $conn->query($sql);

if ($result->num_rows > 0) {

    echo "<table>";

    echo "<tr><th>ID</th><th>Name</th><th>Email</th></tr>";

```

```

while ($row = $result->fetch_assoc()) {
    echo "<tr><td>" . $row["id"] . "</td><td>" . $row["name"] . "</td><td>" . $row["email"] . "</td></tr>";
}
echo "</table>";
} else {
    echo "No records found";
}

$conn->close();

?>

```

React.js

For greeting

```

import React from 'react';

function Greeting() {
    return (
        <h1>Hello World!</h1>
    );
}

export default Greeting;

```

Hooks for Login form

```

import React, { useState } from 'react';

function LoginForm() {
    const [username, setUsername] = useState("");
    const [password, setPassword] = useState("");

    const handleUsernameChange = (event) => {
        setUsername(event.target.value);
    };

    const handlePasswordChange = (event) => {
        setPassword(event.target.value);
    };
}

```

```
};

const handleSubmit = (event) => {
  event.preventDefault(); // Prevent default form submission

  // Submit login data (replace with your login logic)
  console.log("Username:", username);
  console.log("Password:", password);
};

return (
  <form onSubmit={handleSubmit}>
    <label htmlFor="username">Username:</label>
    <input type="text" id="username" value={username} onChange={handleUsernameChange} required />
    <br />
    <label htmlFor="password">Password:</label>
    <input type="password" id="password" value={password} onChange={handlePasswordChange} required />
    <br />
    <button type="submit">Login</button>
  </form>
);
}

export default LoginForm;
```