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<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1,
shrink-to-fit=no">
  <title>Bootstrap Web Page</title>

  <!-- Bootstrap CSS -->
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.
min.css">

</head>
<body>

  <!-- Navigation Bar -->
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
    <a class="navbar-brand" href="#"> FSWD</a>
    <button class="navbar-toggler" type="button" data-
toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav"
aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNav">
      <ul class="navbar-nav">
        <li class="nav-item active">
          <a class="nav-link" href="#">Home <span class="sr-
only">(current)</span></a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Link</a>
        </li>
        <!-- Add more navigation items as needed -->
      </ul>
    </div>
  </nav>

  <!-- Content Container -->
  <div class="container mt-4">

    <!-- Table -->
    <table class="table">
      <thead>
        <tr>
          <th scope="col">#</th>
          <th scope="col">First Name</th>
          <th scope="col">Last Name</th>
          <th scope="col">Email</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <th scope="row">1</th>
          <td>XXX</td>
          <td>YYY</td>

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        <td>XY@gmail.com</td>
    </tr>
    <!-- Add more table rows as needed -->
</tbody>
</table>

<!-- Form -->
<form>
    <div class="form-group">
        <label for="firstName">First Name</label>
        <input type="text" class="form-control" id="firstName"
placeholder="Enter your first name">
    </div>
    <div class="form-group">
        <label for="lastName">Last Name</label>
        <input type="text" class="form-control" id="lastName"
placeholder="Enter your last name">
    </div>
    <div class="form-group">
        <label for="email">Email address</label>
        <input type="email" class="form-control" id="email"
placeholder="name@example.com">
    </div>
    <button type="submit" class="btn btn-
primary">Submit</button>
</form>

    <!-- Button -->
    <button type="button" class="btn btn-success mt-3">Click
me</button>

</div>

<!-- Bootstrap JS (Optional: Include Popper.js before Bootstrap JS)
-->
<script src="https://code.jquery.com/jquery-
3.5.1.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.10.1/dist/umd/popper
.min.js"></script>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.mi
n.js"></script>

</body>
</html>

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3.

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<!DOCTYPE html>
<html>

<head>
  <title>JavaScript Calculator</title>
  <script src=
"https://cdnjs.cloudflare.com/ajax/libs/mathjs/10.6.4/math.js"
    integrity=
"sha512-
BbVEDjbqdN3Eow8+empLMrJlxXRj5nEitiCAK5A1pUr66+jLVejo3PmjIaucRnjlB0P9R3r
BUs3g5jXc8ti+fQ=="
    crossorigin="anonymous"
    referrerpolicy="no-referrer"></script>
  <script src=
"https://cdnjs.cloudflare.com/ajax/libs/mathjs/10.6.4/math.min.js"
    integrity=
"sha512-
iphNRh6dPbeuPGIrQbCdbBF/qcqdadKWLa35YPVfMZMHBSI6PLJh1om2xCTWhpVpmUyb4IvV
S9iYnnYMkleVXLA=="
    crossorigin="anonymous"
    referrerpolicy="no-referrer"></script>

  <!-- For styling -->
  <style>
    table {
      border: 1px solid black;
      margin-left: auto;
      margin-right: auto;
    }

    input[type="button"] {
      width: 100%;
      padding: 20px 40px;
      background-color: green;
      color: white;
      font-size: 24px;
      font-weight: bold;
      border: none;
      border-radius: 5px;
    }

    input[type="text"] {
      padding: 20px 30px;
      font-size: 24px;
      font-weight: bold;
      border: none;
      border-radius: 5px;
      border: 2px solid black;
    }
  </style>
</head>

<body>

  <!-- Use Table to Create Calculator Structure Design -->
  <table id="calcu">
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        <tr>
            <td colspan="3"><input type="text"
id="result"></td>
            <td><input type="button" value="c"
onclick="clr()" /> </td>
        </tr>
        <tr>
            <td><input type="button" value="1"
onclick="dis('1') "
            <td><input type="button" value="2"
onclick="dis('2') "
            <td><input type="button" value="3"
onclick="dis('3') "
            <td><input type="button" value="/"
onclick="dis('/') "
            <td><input type="button" value="4"
onclick="dis('4') "
            <td><input type="button" value="5"
onclick="dis('5') "
            <td><input type="button" value="6"
onclick="dis('6') "
            <td><input type="button" value="*"
onclick="dis('*') "
            <td><input type="button" value="7"
onclick="dis('7') "
            <td><input type="button" value="8"
onclick="dis('8') "
            <td><input type="button" value="9"
onclick="dis('9') "
            <td><input type="button" value="-"
onclick="dis('-') "

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        onkeydown="myFunction(event)"> </td>
      </tr>
      <tr>
        <td><input type="button" value="0"
onclick="dis('0') "

        onkeydown="myFunction(event)"> </td>
        <td><input type="button" value="."
onclick="dis('.') "

        onkeydown="myFunction(event)"> </td>

        <!-- solve function call function solve to
evaluate value -->
        <td><input type="button" value="="
onclick="solve()"> </td>

        <td><input type="button" value="+"
onclick="dis('+') "

        onkeydown="myFunction(event)"> </td>
      </tr>
    </table>

    <script>

      // Function that display value
      function dis(val) {
        document.getElementById("result").value += val
      }

      function myFunction(event) {
        if (event.key == '0' || event.key == '1'
            || event.key == '2' || event.key == '3'
            || event.key == '4' || event.key == '5'
            || event.key == '6' || event.key == '7'
            || event.key == '8' || event.key == '9'
            || event.key == '+' || event.key == '-'
            || event.key == '*' || event.key == '/')
          document.getElementById("result").value +=
event.key;
        }

        var cal = document.getElementById("calcu");
        cal.onkeyup = function (event) {
          if (event.keyCode === 13) {
            console.log("Enter");
            let x =
document.getElementById("result").value
            console.log(x);
            solve();
          }
        }

        // Function that evaluates the digit and return result
        function solve() {
          let x = document.getElementById("result").value

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        let y = math.evaluate(x)
        document.getElementById("result").value = y
    }

    // Function that clear the display
    function clr() {
        document.getElementById("result").value = ""
    }
</script>
</body>

</html>

```

4. HTML

```

<!DOCTYPE html>
<html>

<head>
    <!-- Latest compiled and minified CSS -->
    <link rel="stylesheet" href=
"https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css"
>
    <!-- jQuery library -->
    <script src=
"https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js">
    </script>
    <!-- Popper JS -->
    <script src=
"https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.12.9/umd/popper.min
.js">
    </script>
    <!-- Latest compiled JavaScript -->
    <script src=
"https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/js/bootstrap.min.js">
    </script>
</head>

<body>
    <h1 class="text-center text-success">
        Welcome to DSCE
    </h1>
    <p class="text-center">
        FORM VALIDATION USING JQUERY
    </p>

    <div class="container">
        <div class="col-lg-8
            m-auto d-block">
            <form>
                <div class="form-group">
                    <label for="user">
                        Username:
                    </label>
                    <input type="text"
                        name="username"
                        id="usernames"

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        class="form-control">
        <h5 id="usercheck"
            style="color: red;">
                **Username is missing
        </h5>
    </div>

    <div class="form-group">
        <label for="user">
            Email:
        </label>
        <input type="email"
            name="email"
            id="email" required
            class="form-control">
        <small id="emailvalid"
            class="form-text text-muted
invalid-feedback">
            Your email must be a valid
            email
        </small>
    </div>

    <div class="form-group">
        <label for="password">
            Password:
        </label>
        <input type="password"
            name="pass"
            id="password"
            class="form-control">
        <h5 id="passcheck"
            style="color: red;">
                **Please Fill the password
        </h5>
    </div>

    <div class="form-group">
        <label for="conpassword">
            Confirm Password:
        </label>
        <input type="password"
            name="username"
            id="conpassword"
            class="form-control">
        <h5 id="conpasscheck"
            style="color: red;">
                **Password didn't match
        </h5>
    </div>

    <input type="submit"
        id="submitbtn"
        value="Submit"
        class="btn btn-primary">
    </form>
</div>
</div>

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        <!-- Including app.js jQuery Script -->
        <script src="4.js"></script>
    </body>

</html>

```

JAVASCRIPT

```

// Document is ready
$(document).ready(function () {

    // Validate Username
    $("#usercheck").hide();
    let usernameError = true;
    $("#usernames").keyup(function () {
        validateUsername();
    });

    function validateUsername() {
        let usernameValue = $("#usernames").val();
        if (usernameValue.length == "") {
            $("#usercheck").show();
            usernameError = false;
            return false;
        } else if (usernameValue.length < 3 ||
usernameValue.length > 10) {
            $("#usercheck").show();
            $("#usercheck").html("**length of username must
be between 3 and 10");
            usernameError = false;
            return false;
        } else {
            $("#usercheck").hide();
        }
    }

    // Validate Email
    const email = document.getElementById("email");
    email.addEventListener("blur", () => {
        let regex =
/^([_\-\.0-9a-zA-Z]+)@([_\-\.0-9a-zA-Z]+\.[a-zA-
Z]){2,7}$;/;
        let s = email.value;
        if (regex.test(s)) {
            email.classList.remove("is-invalid");
            emailError = true;
        } else {
            email.classList.add("is-invalid");
            emailError = false;
        }
    });

    // Validate Password
    $("#passcheck").hide();
    let passwordError = true;
    $("#password").keyup(function () {

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        validatePassword();
    });
    function validatePassword() {
        let passwordValue = $("#password").val();
        if (passwordValue.length == "") {
            $("#passcheck").show();
            passwordError = false;
            return false;
        }
        if (passwordValue.length < 3 || passwordValue.length >
10) {
            $("#passcheck").show();
            $("#passcheck").html(
                "**length of your password must be between
3 and 10"
            );
            $("#passcheck").css("color", "red");
            passwordError = false;
            return false;
        } else {
            $("#passcheck").hide();
        }
    }

    // Validate Confirm Password
    $("#conpasscheck").hide();
    let confirmPasswordError = true;
    $("#conpassword").keyup(function () {
        validateConfirmPassword();
    });
    function validateConfirmPassword() {
        let confirmPasswordValue = $("#conpassword").val();
        let passwordValue = $("#password").val();
        if (passwordValue != confirmPasswordValue) {
            $("#conpasscheck").show();
            $("#conpasscheck").html("**Password didn't
Match");
            $("#conpasscheck").css("color", "red");
            confirmPasswordError = false;
            return false;
        } else {
            $("#conpasscheck").hide();
        }
    }

    // Submit button
    $("#submitbtn").click(function () {
        validateUsername();
        validatePassword();
        validateConfirmPassword();
        validateEmail();
        if (
            usernameError == true &&
            passwordError == true &&
            confirmPasswordError == true &&
            emailError == true
        ) {
            return true;

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        } else {
            return false;
        }
    });
});

```

1. HTML

```

2. <!DOCTYPE html>
3. <!-- Website - www.codingnepalweb.com -->
4.
5. <html lang="en" dir="ltr">
6.     <head>
7.         <meta charset="UTF-8" />
8.         <meta name="viewport" content="width=device-width, initial-
scale=1.0" />
9.         <title>Simple Website Design HTML CSS </title>
10.        <link rel="stylesheet" href="style.css" />
11.    </head>
12.    <body>
13.        <nav>
14.            <div class="menu">
15.                <div class="logo">
16.                    <a href="#">FULL STACK LAB</a>
17.                </div>
18.                <ul>
19.                    <li><a href="#">Home</a></li>
20.                    <li><a href="#">About</a></li>
21.                    <li><a href="#">Services</a></li>
22.                    <li><a href="#">Contact</a></li>
23.                    <li><a href="#">Feedback</a></li>
24.                </ul>
25.            </div>
26.        </nav>
27.        <div class="img"></div>
28.        <div class="center">
29.            <div class="title">Amazing Website</div>
30.            <div class="sub_title">HTML & CSS</div>
31.            <div class="btns">
32.                <button>Learn More</button>
33.                <button>Subscribe</button>
34.            </div>
35.        </div>
36.    </body>
37. </html>

```

CSS

```

@import
url("https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;
600;700&display=swap");
* {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
    font-family: "Poppins", sans-serif;
}

```

```
::selection {
  color: #000;
  background: #fff;
}
nav {
  position: fixed;
  background: #1b1b1b;
  width: 100%;
  padding: 10px 0;
  z-index: 12;
}
nav .menu {
  max-width: 1250px;
  margin: auto;
  display: flex;
  align-items: center;
  justify-content: space-between;
  padding: 0 20px;
}
.menu .logo a {
  text-decoration: none;
  color: #fff;
  font-size: 35px;
  font-weight: 600;
}
.menu ul {
  display: inline-flex;
}
.menu ul li {
  list-style: none;
  margin-left: 7px;
}
.menu ul li:first-child {
  margin-left: 0px;
}
.menu ul li a {
  text-decoration: none;
  color: #fff;
  font-size: 18px;
  font-weight: 500;
  padding: 8px 15px;
  border-radius: 5px;
  transition: all 0.3s ease;
}
.menu ul li a:hover {
  background: #fff;
  color: black;
}
.img {
  background: url("img.jpg") no-repeat;
  width: 100%;
  height: 100vh;
  background-size: cover;
  background-position: center;
  position: relative;
}
.img::before {
  content: "";
  position: absolute;
  height: 100%;
  width: 100%;
}
```

```
    background: rgba(0, 0, 0, 0.4);
}
.center {
    position: absolute;
    top: 52%;
    left: 50%;
    transform: translate(-50%, -50%);
    width: 100%;
    padding: 0 20px;
    text-align: center;
}
.center .title {
    color: #fff;
    font-size: 55px;
    font-weight: 600;
}
.center .sub_title {
    color: #fff;
    font-size: 52px;
    font-weight: 600;
}
.center .btns {
    margin-top: 20px;
}
.center .btns button {
    height: 55px;
    width: 170px;
    border-radius: 5px;
    border: none;
    margin: 0 10px;
    border: 2px solid white;
    font-size: 20px;
    font-weight: 500;
    padding: 0 10px;
    cursor: pointer;
    outline: none;
    transition: all 0.3s ease;
}
.center .btns button:first-child {
    color: #fff;
    background: none;
}
.btns button:first-child:hover {
    background: white;
    color: black;
}
.center .btns button:last-child {
    background: white;
    color: black;
}
```