YELLOW – MAIN TANAN (HTML, CSS, JAVASCRIPT)

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="utf-8">

    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <meta name="description" content="Start your development with Steller landing page.">

    <meta name="author" content="Devcrud">

    <title>Steller Landing page | Free Bootstrap 4.1 landing page</title>

    <link rel="stylesheet" href="assets/vendors/themify-icons/css/themify-icons.css">

    <link rel="stylesheet" href="assets/css/steller.css">

</head>

<body data-spy="scroll" data-target=".navbar" data-offset="40" id="home">

    <nav class="navbar navbar-expand-lg navbar-light fixed-top" data-spy="affix" data-offset-top="0">

        <div class="container">

            <button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarSupportedContent" aria-controls="navbarSupportedContent" aria-expanded="false" aria-label="Toggle navigation">

                <span class="navbar-toggler-icon"></span>

      F      </button>

            <div class="collapse navbar-collapse" id="navbarSupportedContent">

                <ul class="navbar-nav ml-auto align-items-center">

                    <li class="nav-item">

                        <a class="nav-link" href="#home">Home</a>

                    </li>

                    <li class="nav-item">

                        <a class="nav-link" href="#about">Assignments</a>

                    </li>

                </ul>

            </div>

        </div>

    </nav>

    <header class="header" id="home">

        <div class="container">

            <div class="infos">

                <h6 class="subtitle">Assignments for</h6>

                <h6 class="title">ITC</h6>

                <p>Filo Ian Bernardo </p>

                <div class="buttons pt-3">

                    <a href="#about" type="button" class="btn btn-primary rounded mt-3">Go to Assignments</a>

                </div>

            </div>

            <div class="img-holder">

                <img src="assets/imgs/man.svg" alt="">

            </div>

        </div>

        <div class="widget">

            <div class="widget-item">

                <h2>CompSci 1-C</h2>

            </div>

            <div class="widget-item">

                <h2>Sir Roy Geralde</h2>

            </div>

        </div>

    </header>

    <section id="about" class="section mt-3">

        <div class="container mt-5">

            <div class="row text-center text-md-left">

                <div class="col-md-3">

                <div class="pl-md-4 col-md-9">

                    <h6 class="title">Introduction to Computing</h6>

                    <p class="subtitle">Filo Ian Bernardo</p>

                <a href="Assignment1/assignment-1.html"

                button class="btn btn-primary rounded mt-3">ASSIGNMENT 1</button></a>

                <a href="Assignment2/assignment-2.html"

                button class="btn btn-primary rounded mt-3">ASSIGNMENT 2</button> </a>

                <a href="Assignment3/assignment-3.html"

                button class="btn btn-primary rounded mt-3">ASSIGNMENT 3</button></a>

                <a href="Assignment4/assignment-4.html"

                button class="btn btn-primary rounded mt-3">ASSIGNMENT 4</button></a>

                </div>

            </div>

        </div>

    </section>

    <script src="assets/vendors/jquery/jquery-3.4.1.js"></script>

    <script src="assets/vendors/bootstrap/bootstrap.bundle.js"></script>

    <script src="assets/vendors/bootstrap/bootstrap.affix.js"></script>

    <script src="assets/js/steller.js"></script>

</body>

</html>  
  
CSS – MAIN   
/\* General reset and body styles \*/

body {

    font-family: Arial, sans-serif;

    background-color: #907115;

    color: #333;

    margin: 0;

    padding: 0;

    display: flex;

    justify-content: center;

    align-items: center;

    height: 100vh;

}

/\* Container styles \*/

.container {

    text-align: center;

    background-color: #fff;

    padding: 30px;

    border-radius: 1px;

    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

    width: 350px;

    max-width: 90%;

}

/\* Heading styles \*/

h1 {

    font-size: 2.5em;

    color: #000a00;

    margin-bottom: 10px;

}

h2 {

    font-size: 1.8em;

    color: #333;

    margin-bottom: 15px;

}

p {

    font-size: 1.1em;

    color: #555;

    margin: 10px 0;

}

/\* Button container \*/

.assignments {

    margin: 20px 0;

}

/\* Styling for individual assignment buttons \*/

.assignment-btn {

    padding: 12px;

    width: 100%;

    background-color: rgb(81, 0, 255);

    color: white;

    border: none;

    border-radius: 6px;

    font-size: 1.1em;

    cursor: pointer;

    margin: 5px 0;

    transition: background-color 0.3s ease;

}

/\* Hover effect for assignment buttons \*/

.assignment-btn:hover {

    background-color: rgb(81, 0, 255);

}

/\* Styling for the "Go to Assignment" button \*/

.go-btn {

    padding: 12px;

    width: 100%;

    background-color: #007BFF;

    color: white;

    border: none;

    border-radius: 6px;

    font-size: 1.1em;

    cursor: pointer;

    margin: 5px 0;

    transition: background-color 0.3s ease;

}

/\* Hover effect for "Go to Assignment" button \*/

.go-btn:hover {

    background-color: #0056b3;

}

/\* Fix for anchor tags around the buttons \*/

a {

    text-decoration: none;

}

JAVASCRIPT-MAIN

document.addEventListener("DOMContentLoaded", function () {

    function goToAssignment(assignmentPage) {

        window.location.href = assignmentPage;

    }

    const assignmentButtons = document.querySelectorAll('.assignment-btn');

    assignmentButtons.forEach(function (button) {

        button.addEventListener('click', function () {

            const targetPage = button.getAttribute('onclick').match(/'([^']+)'/)[1];

            goToAssignment(targetPage);

        });

    });

    const goToAssignmentButton = document.querySelector('.go-btn');

    goToAssignmentButton.addEventListener('click', function () {

        goToAssignment('homework.html');

    });

});

CYAN - ASSIGNMENT 1

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Unit Converter</title>

    <link rel="stylesheet" href="assignment-1.css">

</head>

<body>

    <div class="container">

        <h1>Unit Converter</h1>

        <div class="converter">

            <label for="value">Enter Value:</label>

            <input type="number" id="value" placeholder="Enter a value">

            <label for="conversionType">Select Conversion:</label>

            <select id="conversionType">

                <option value="f-to-c">Fahrenheit to Celsius</option>

                <option value="c-to-f">Celsius to Fahrenheit</option>

                <option value="m-to-ft">Meters to Feet</option>

                <option value="ft-to-m">Feet to Meters</option>

            </select>

            <button onclick="convert()">Convert</button>

        </div>

        <p id="result"></p>

    </div>

    <script src="assignment-1.js"></script>

</body>

</html>  
  
assignment1.css

body {

    font-family: Arial, sans-serif;

    background-color: #f4f4f9;

    color: #333;

    display: flex;

    justify-content: center;

    align-items: center;

    height: 100vh;

    margin: 5;

}

.container {

    text-align: center;

    background: #fff;

    padding: 20px;

    border-radius: 8px;

    box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);

    width: 500px;

}

h1 {

    margin-bottom: 30px;

}

.converter {

    margin-bottom: 15px;

}

input,

select {

    padding: 10px;

    width: 100%;

    margin-bottom: 30px;

    border: 1px solid #ccc;

    border-radius: 4px;

    font-size: 1em;

}

button {

    padding: 10px;

    width: 100%;

    background-color: orange;

    /\* Orange for Convert Button \*/

    color: white;

    border: none;

    border-radius: 4px;

    cursor: pointer;

    font-size: 1em;

    margin-bottom: 60px;

    /\* Space between buttons \*/

    transition: background-color 0.3s ease;

}

button:hover {

    background-color: darkorange;

    /\* Hover effect for Convert Button \*/

}

.back-button {

    background-color: gray;

    /\* Gray for Back to Home Button \*/

    color: white;

    font-size: 1em;

    border: none;

    border-radius: 4px;

    cursor: pointer;

    padding: 10px;

    transition: background-color 0.3s ease;

}

.back-button:hover {

    background-color: darkgray;

    /\* Hover effect for Back to Home Button \*/

}

#result {

    font-size: 1.2em;

    margin-top: 10px;

    color: green;

    /\* Default color for result messages \*/

}

Assignment1.js  
document.addEventListener("DOMContentLoaded", function () {

    // Add event listener to the button after DOM is loaded

    const convertButton = document.querySelector("button");

    convertButton.addEventListener("click", convert);

    function convert() {

        const value = parseFloat(document.getElementById('value').value);

        const conversionType = document.getElementById('conversionType').value;

        const resultElement = document.getElementById('result');

        if (isNaN(value)) {

            resultElement.textContent = 'Please enter a valid number!';

            resultElement.style.color = 'red';

            return;

        }

        let result;

        if (conversionType === 'f-to-c') {

            result = ((value - 32) \* 5) / 9;

            resultElement.textContent = `${value}°F is equal to ${result.toFixed(2)}°C.`;

        } else if (conversionType === 'c-to-f') {

            result = (value \* 9) / 5 + 32;

            resultElement.textContent = `${value}°C is equal to ${result.toFixed(2)}°F.`;

        } else if (conversionType === 'm-to-ft') {

            result = value \* 3.28084;

            resultElement.textContent = `${value} meters is equal to ${result.toFixed(2)} feet.`;

        } else if (conversionType === 'ft-to-m') {

            result = value / 3.28084;

            resultElement.textContent = `${value} feet is equal to ${result.toFixed(2)} meters.`;

        } else {

            resultElement.textContent = 'Invalid conversion type!';

        }

        resultElement.style.color = 'green';

    }

});

Assignment2.html

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Income Tax Calculator</title>

    <link rel="stylesheet" href="assignment-2.css">

</head>

<body>

    <div class="container">

        <h1>Income Tax Calculator</h1>

        <label for="taxableIncome">Enter Taxable Income (PHP):</label>

        <input type="number" id="taxableIncome" placeholder="Enter taxable income" />

        <button id="calculateButton">Calculate Tax</button>

        <p id="result"></p>

    </div>

    <script src="assignment-2.js"></script>

</body>

</html>  
  
Assignment2.css  
body {

    font-family: Arial, sans-serif;

    background-color: #f4f4f9;

    color: #333;

    display: flex;

    justify-content: center;

    align-items: center;

    height: 100vh;

    margin: 0;

}

.container {

    text-align: center;

    background: #fff;

    padding: 30px;

    border-radius: 8px;

    box-shadow: 0 4px 6px rgba(0, 0, 0, 0.1);

    width: 350px;

}

h1 {

    margin-bottom: 20px;

}

input {

    padding: 10px;

    width: 100%;

    margin-bottom: 15px;

    border: 1px solid #ccc;

    border-radius: 4px;

    font-size: 1em;

}

button {

    padding: 10px;

    width: 100%;

    background-color: orange;

    color: white;

    border: none;

    border-radius: 4px;

    cursor: pointer;

    font-size: 1.1em;

    transition: background-color 0.3s ease;

}

button:hover {

    background-color: darkorange;

}

#result {

    font-size: 1.2em;

    margin-top: 20px;

    color: green;

}  
Assignment2.js  
document.addEventListener("DOMContentLoaded", function () {

    const calculateButton = document.getElementById("calculateButton");

    calculateButton.addEventListener("click", calculateTax);

    function calculateTax() {

        const taxableIncome = parseFloat(document.getElementById('taxableIncome').value);

        const resultElement = document.getElementById('result');

        if (isNaN(taxableIncome) || taxableIncome < 0) {

            resultElement.textContent = 'Please enter a valid positive number!';

            resultElement.style.color = 'red';

            return;

        }

        let basicTax = 0;

        let rateTax = 0;

        if (taxableIncome <= 250000) {

            basicTax = 0;

            rateTax = 0;

        } else if (taxableIncome <= 400000) {

            basicTax = 0;

            rateTax = (taxableIncome - 250000) \* 0.20;

        } else if (taxableIncome <= 800000) {

            basicTax = 30000;

            rateTax = (taxableIncome - 400000) \* 0.25;

        } else if (taxableIncome <= 2000000) {

            basicTax = 130000;

            rateTax = (taxableIncome - 800000) \* 0.30;

        } else if (taxableIncome <= 8000000) {

            basicTax = 490000;

            rateTax = (taxableIncome - 2000000) \* 0.32;

        } else {

            basicTax = 2410000;

            rateTax = (taxableIncome - 8000000) \* 0.35;

        }

        const totalTax = basicTax + rateTax;

        resultElement.textContent = `Income Tax: PHP ${totalTax.toFixed(2)}`;

        resultElement.style.color = 'green';

    }

});

Assignment3.html  
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Factorial, Sum, and Average</title>

    <link rel="stylesheet" href="assignment-3.css">

</head>

<body>

    <div class="container">

        <h1>Factorial, Sum, and Average Calculator</h1>

        <div class="input-section">

            <label for="n-value">Enter an integer value n:</label>

            <input type="number" id="n-value" min="1" placeholder="Enter a number" required>

            <button id="calculate-btn">Calculate</button>

        </div>

        <div id="results">

            <p id="factorial-result">Factorial of n:</p>

            <p id="sum-result">Sum of first n numbers:</p>

            <p id="average-result">Average of first n numbers:</p>

        </div>

    </div>

    <script src="assignment-3.js"></script>

</body>

</html>

Assignment3.css  
body {

    font-family: Arial, sans-serif;

    background-color: #f4f4f9;

    color: #333;

    margin: 0;

    padding: 0;

    display: flex;

    justify-content: center;

    align-items: center;

    height: 100vh;

}

.container {

    text-align: center;

    background-color: #fff;

    padding: 30px;

    border-radius: 10px;

    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

    width: 350px;

    max-width: 90%;

}

h1 {

    font-size: 2em;

    color: #4CAF50;

    margin-bottom: 20px;

}

.input-section {

    margin-bottom: 20px;

}

label {

    font-size: 1.1em;

    margin-bottom: 5px;

    display: block;

}

input {

    padding: 8px;

    width: 100%;

    margin-bottom: 10px;

    border: 1px solid #ccc;

    border-radius: 6px;

    font-size: 1em;

}

button {

    padding: 10px 20px;

    background-color: #f4a113;

    color: white;

    border: none;

    border-radius: 6px;

    font-size: 1.1em;

    cursor: pointer;

    width: 100%;

    transition: background-color 0.3s ease;

}

button:hover {

    background-color: #0056b3;

}

#results {

    margin-top: 20px;

    font-size: 1.2em;

}

p {

    margin: 10px 0;

}

Assignment3.js  
document.addEventListener("DOMContentLoaded", function () {

    const calculateBtn = document.getElementById("calculate-btn");

    const nInput = document.getElementById("n-value");

    function calculateFactorial(n) {

        let factorial = 1;

        let i = 1;

        while (i <= n) {

            factorial \*= i;

            i++;

        }

        return factorial;

    }

    function calculateSum(n) {

        let sum = 0;

        let i = 1;

        do {

            sum += i;

            i++;

        } while (i <= n);

        return sum;

    }

    function calculateAverage(n) {

        let sum = 0;

        for (let i = 1; i <= n; i++) {

            sum += i;

        }

        return sum / n;

    }

    function displayResults(n) {

        const factorialResult = calculateFactorial(n);

        const sumResult = calculateSum(n);

        const averageResult = calculateAverage(n);

        document.getElementById("factorial-result").textContent = `Factorial of ${n}: ${factorialResult}`;

        document.getElementById("sum-result").textContent = `Sum of first ${n} numbers: ${sumResult}`;

        document.getElementById("average-result").textContent = `Average of first ${n} numbers: ${averageResult.toFixed(2)}`;

    }

    calculateBtn.addEventListener("click", function () {

        const n = parseInt(nInput.value);

        if (isNaN(n) || n <= 0) {

            alert("Please enter a valid integer greater than 0.");

        } else {

            displayResults(n);

        }

    });

});

Assignment4.html  
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Payroll Management</title>

    <link rel="stylesheet" href="assignment-4.css">

</head>

<body>

    <div class="container">

        <h1>Payroll Management</h1>

        <form id="payroll-form">

            <label for="name">Employee Name:</label>

            <input type="text" id="name" required>

            <label for="daysWorked">Days Worked:</label>

            <input type="number" id="daysWorked" min="0" required>

            <label for="dailyRate">Daily Rate:</label>

            <input type="number" id="dailyRate" min="0" required>

            <label for="deduction">Deduction Amount:</label>

            <input type="number" id="deduction" min="0" required>

            <button type="button" onclick="addEmployee()">Add Employee</button>

        </form>

        <h2>Payroll List</h2>

        <table id="payroll-table">

            <thead>

                <tr>

                    <th>No.</th>

                    <th>Employee Name</th>

                    <th>Days Worked</th>

                    <th>Daily Rate</th>

                    <th>Gross Pay</th>

                    <th>Deduction Amount</th>

                    <th>Net Pay</th>

                    <th>Actions</th>

                </tr>

            </thead>

            <tbody>

                <!-- Dynamic Rows will be added here -->

            </tbody>

        </table>

    </div>

    <script src="assignment-4.js"></script>

</body>

</html>

Assignment4.css  
body {

    font-family: Arial, sans-serif;

    margin: 0;

    padding: 0;

    background-color: #f9f9f9;

    line-height: 1.6;

}

.container {

    max-width: 800px;

    margin: 20px auto;

    padding: 20px;

    background-color: #fff;

    border-radius: 8px;

    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);

}

h1, h2 {

    text-align: center;

    color: #333;

    margin-bottom: 20px;

}

form {

    display: grid;

    grid-template-columns: 1fr 1fr;

    gap: 15px;

    margin-bottom: 20px;

}

form label {

    grid-column: span 2;

    font-weight: bold;

}

form input,

form select {

    padding: 10px;

    border: 1px solid #ccc;

    border-radius: 4px;

    width: 100%;

    box-sizing: border-box;

}

form button {

    grid-column: span 2;

    padding: 12px;

    background-color: #f5b802;

    color: white;

    border: none;

    border-radius: 4px;

    cursor: pointer;

    font-size: 1rem;

    transition: background-color 0.3s ease;

}

form button:hover {

    background-color: #ff7300;

}

table {

    width: 100%;

    border-collapse: collapse;

    margin-top: 20px;

}

table th,

table td {

    padding: 12px;

    text-align: left;

    border: 1px solid #ddd;

}

table th {

    background-color: #f2f2f2;

    font-weight: bold;

}

table tr:nth-child(even) {

    background-color: #f9f9f9;

}

button.delete-btn {

    background-color: #dc3545;

    color: white;

    border: none;

    border-radius: 4px;

    cursor: pointer;

    padding: 8px 12px;

    font-size: 0.9rem;

    transition: background-color 0.3s ease;

}

button.delete-btn:hover {

    background-color: #a71d2a;

}

@media (max-width: 600px) {

    .container {

        padding: 15px;

    }

    form {

        grid-template-columns: 1fr;

    }

    form button {

        grid-column: span 1;

    }

    table th,

    table td {

        padding: 10px;

        font-size: 0.9rem;

    }

    button.delete-btn {

        padding: 6px 10px;

        font-size: 0.8rem;

    }

}

Assignment4.js  
let employeeList = [];

function addEmployee() {

    const name = document.getElementById("name").value;

    const daysWorked = parseInt(document.getElementById("daysWorked").value, 10);

    const dailyRate = parseFloat(document.getElementById("dailyRate").value);

    const deduction = parseFloat(document.getElementById("deduction").value);

    if (name && daysWorked >= 0 && dailyRate >= 0 && deduction >= 0) {

        const grossPay = daysWorked \* dailyRate;

        const netPay = grossPay - deduction;

        employeeList.push({

            name,

            daysWorked,

            dailyRate,

            grossPay,

            deduction,

            netPay,

        });

        document.getElementById("payroll-form").reset();

        updateTable();

    } else {

        alert("Please fill all fields correctly!");

    }

}

function deleteEmployee(index) {

    employeeList.splice(index, 1);

    updateTable();

}

function updateTable() {

    const tableBody = document.querySelector("#payroll-table tbody");

    tableBody.innerHTML = "";

    employeeList.forEach((employee, index) => {

        const row = document.createElement("tr");

        row.innerHTML = `

            <td>${index + 1}</td>

            <td>${employee.name}</td>

            <td>${employee.daysWorked}</td>

            <td>${employee.dailyRate.toFixed(2)}</td>

            <td>${employee.grossPay.toFixed(2)}</td>

            <td>${employee.deduction.toFixed(2)}</td>

            <td>${employee.netPay.toFixed(2)}</td>

            <td><button class="delete-btn" onclick="deleteEmployee(${index})">Delete</button></td>

        `;

        tableBody.appendChild(row);

    });

}