3. HTML

A. Create a basic calculator using HTML, CSS, and JavaScript with the functionality of add,

subtract, multiply and divide. Use the following picture for reference.

<!DOCTYPE html>

<html>

<head>

<style>

.calculator {

width: 250px;

padding: 20px;

border: 1px solid #ccc;

}

input[type="text"] {

width: 100%;

margin-bottom: 10px;

}

input[type="button"] {

width: 50px;

height: 50px;

margin: 5px;

}

.row {

display: flex;

}

</style>

</head>

<body>

<div class="calculator">

<input type="text" id="result" readonly/>

<div class="row">

<input type="button" value="7" onclick="appendToResult('7')"/>

<input type="button" value="8" onclick="appendToResult('8')"/>

<input type="button" value="9" onclick="appendToResult('9')"/>

<input type="button" value="/" onclick="appendToResult('/')"/>

</div>

<div class="row">

<input type="button" value="4" onclick="appendToResult('4')"/>

<input type="button" value="5" onclick="appendToResult('5')"/>

<input type="button" value="6" onclick="appendToResult('6')"/>

<input type="button" value="\*" onclick="appendToResult('\*')"/>

</div>

<div class="row">

<input type="button" value="1" onclick="appendToResult('1')"/>

<input type="button" value="2" onclick="appendToResult('2')"/>

<input type="button" value="3" onclick="appendToResult('3')"/>

<input type="button" value="-" onclick="appendToResult('-')"/>

</div>

<div class="row">

<input type="button" value="0" onclick="appendToResult('0')"/>

<input type="button" value="." onclick="appendToResult('.')"/>

<input type="button" value="=" onclick="calculateResult()"/>

<input type="button" value="+" onclick="appendToResult('+')"/>

</div>

<div class="row">

<input type="button" value="Clear" onclick="clearResult()"/>

</div>

</div>

<script>

function appendToResult(val) {

document.getElementById('result').value += val;

}

function calculateResult() {

let result = document.getElementById('result').value;

let calculatedResult = eval(result);

document.getElementById('result').value = calculatedResult;

}

function clearResult() {

document.getElementById('result').value = '';

}

</script>

</body>

</html>

**B .**Create a survey form with Fields; First Name, Last Name, Date of Birth, Country (dropdown), Gender (checkbox), Profession, email, and mobile number. All the input fields are necessary to submit the form. Create two buttons Submit and Reset. Reset will reset the form while clicking on submit, first, it will check all the fields and necessary validations and then a popup will appear displaying all the selected values with the label in front of it. On closing the popup, the form should reset all the values. Use the following for reference.

<!DOCTYPE html>

<html>

<head>

<style>

body {

font-family: Arial, sans-serif;

}

.container {

max-width: 400px;

margin: 0 auto;

padding: 20px;

border: 1px solid #ccc;

border-radius: 5px;

}

input[type="text"],

input[type="email"],

input[type="tel"] {

width: 100%;

padding: 10px;

margin-bottom: 15px;

border: 1px solid #ccc;

border-radius: 3px;

}

select {

width: 100%;

padding: 10px;

margin-bottom: 15px;

border: 1px solid #ccc;

border-radius: 3px;

}

input[type="checkbox"] {

margin-bottom: 15px;

}

input[type="submit"],

input[type="reset"] {

width: 100%;

background-color: #4CAF50;

color: white;

padding: 12px 20px;

border: none;

border-radius: 4px;

cursor: pointer;

}

input[type="submit"]:hover,

input[type="reset"]:hover {

background-color: #45a049;

}

</style>

</head>

<body>

<div class="container">

<form id="surveyForm">

<input type="text" placeholder="First Name" name="firstName" required><br>

<input type="text" placeholder="Last Name" name="lastName" required><br>

<input type="date" name="dob" required><br>

<select name="country" required>

<option value="">Select Country</option>

<option value="USA">USA</option>

<option value="UK">UK</option>

<option value="Canada">Canada</option>

<option value="Australia">Australia</option>

</select><br>

<input type="checkbox" name="gender" value="male"> Male

<input type="checkbox" name="gender" value="female"> Female<br>

<input type="text" placeholder="Profession" name="profession" required><br>

<input type="email" placeholder="Email" name="email" required><br>

<input type="tel" placeholder="Mobile Number" name="mobile" required><br>

<input type="submit" value="Submit" onclick="submitForm()">

<input type="reset" value="Reset">

</form>

</div>

<script>

function submitForm() {

event.preventDefault();

const form = document.getElementById('surveyForm');

let formData = new FormData(form);

let result = 'Survey Form Data:\n';

for (const entry of formData.entries()) {

result += `${entry[0]}: ${entry[1]}\n`;

}

alert(result);

form.reset();

}

</script>

</body>

</html>