1. **Calculator using HTML**

**Calculator.html:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

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

<title>Calculator</title>

<link rel="stylesheet" href="calculator.css">

<script type="text/javascript" src="calculator.js"></script>

</head>

<body>

<table class="table" rules="all">

<tr>

<td colspan="3"><input type="text" class="display-box" id="result" /></td>

<td class="clr"><input type="button" value="AC" onclick="Clear()" /></td>

</tr>

<tr>

<td class="td1"><input type="button" value="9" onclick="display('9')" /></td>

<td class="td1"><input type="button" value="8" onclick="display('8')" /></td>

<td class="td1"><input type="button" value="7" onclick="display('7')" /></td>

<td class="td"><input type="button" value="+" onclick="display('+')" /></td>

</tr>

<tr>

<td class="td1"><input type="button" value="6" onclick="display('6')" /></td>

<td class="td1"><input type="button" value="5" onclick="display('5')" /></td>

<td class="td1"><input type="button" value="4" onclick="display('4')" /></td>

<td class="td"><input type="button" value="-" onclick="display('-')" /></td>

</tr>

<tr>

<td class="td1"><input type="button" value="3" onclick="display('3')" /></td>

<td class="td1"><input type="button" value="2" onclick="display('2')" /></td>

<td class="td1"><input type="button" value="1" onclick="display('1')" /></td>

<td class="td"><input type="button" value="/" onclick="display('/')" /></td>

</tr>

<tr>

<td class="td1"><input type="button" value="." onclick="display('.')" /></td>

<td class="td1"><input type="button" value="0" onclick="display('0')" /></td>

<td class="td1"><input type="button" value="=" onclick="calculate()" id="calc" /></td>

<td class="td"><input type="button" value="\*" onclick="display('\*')" /></td>

</tr>

</table>

</body>

</html>

**Calculator.css:**

body{

background-color:rgb(85, 85, 83);

}

.td{

background-color: darkgrey;

}

.td1{

background-color: black;

}

.clr{

background-color: aquamarine;

}

.table{

width:300px;

height:300px;

border:2px;

margin:100px 400px;

border-collapse: collapse;

}

.display-box{

border:solid black 2px;

width:100%;

height:100%;

border-radius: 5px;

}

td{

padding-top: 10px;

padding-bottom: 20px;

padding-left: 30px;

padding-right: 40px;

}

input[type="button"]{

padding:2px;

width:100px;

left: 13px;

top: 20px;

height: 60px;

color:brown;

font-size: 20px;

}

**Calculator.js:**

function Clear() {

var inp = document.getElementById('result');

inp.value = '';

}

function display(value){

document.getElementById("result").value +=value;

}

function calculate(){

var p=document.getElementById("result").value;

var q=eval(p);

document.getElementById("result").value=q;

}

1. **Survey form using HTML**

**Form.html:**

<!doctype html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>SurveyForm</title>

<link rel="stylesheet" href="form.css">

<script type="text/javascript" src="form.js">

</script>

</head>

<body>

<div align="center">

<h3>SURVEY FORM</h3>

<table class="table1" rules="all">

<tr>

<td><form name="f1" class="form" method="post">

<table class="table2" cellspacing="10px" cellpadding="5px">

<tr>

<td><label>FirstName:</label></td>

<td><input type="text" name="fname" size="30" /></td>

</tr>

<tr>

<td><label>LastName:</label></td>

<td><input type="text" name="lname" size="30" /></td>

</tr>

<tr>

<td><label>DateOfBirth:</label></td>

<td><input type="date" name="DOB" /></td>

</tr>

<tr>

<td><label>Country:</label></td>

<td><select name="country" required >

<option value="country">country</option>

<option value="Afghanistan">Afghanistan</option>

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

<option value="Bangladesh">Bangladesh</option>

<option value="Belgium">Belgium</option>

<option value="China">China</option>

<option value="Denmark">Denmark</option>

<option value="Egypt">Egypt</option>

<option value="France">France</option>

<option value="Germany">Germany</option>

<option value="Iceland">Iceland</option>

<option value="India">India</option>

<option value="Italy">Italy</option>

<option value="Japan">Japan</option>

<option value="Kenya">Kenya</option>

<option value="Liberia">Liberia</option>

<option value="Malaysia">Malaysia</option>

<option value="Nepal">Nepal</option>

<option value="Pakistan">Pakistan</option>

<option value="Romania">Romania</option>

<option value="Sri Lanka">Sri Lanka</option>

<option value="Turkey">Turkey</option>

<option value="United States">United States</option>

<option value="Vietnam">Vietnam</option>

<option value="Zimbabwe">Zimbabwe</option>

</select>

</td>

</tr>

<tr>

<td><label>Gender:</label></td>

<td><input type="checkbox" name="gen" />male

<input type="checkbox" name="gen" />female</td>

</tr>

<tr>

<td><label>Profession:</label></td>

<td><input type="text" name="profession" size="30" /></td>

</tr>

<tr>

<td><label>Email-id:</label></td>

<td><input type="email" name="email" size="30" /></td>

</tr>

<tr>

<td><label>Phone Number:</label></td>

<td><input type="text" name="phone" size="30" /></td>

</tr>

<tr>

<td colspan="2" align="center"><input type="button" value="submit" onclick="validate()"/>

<input type="reset" value="reset" /></td>

</tr>

</table>

</form>

</td></tr></table>

</div>

</body>

</html>

**Form.css:**

body{

background-color:bisque;

}

.table1{

background-color: azure;

border: 2px solid;

border-color:white;

height:350px;

width:450px;

}

.table2{

height:300px;

width:350px;

font-size: 20px;

padding:40px;

}

h3{

color:deeppink;

font-size:30px;

margin:50px;

}

input[type="button"],input[type="reset"]{

background-color: aqua;

font-size:20px;

}

**Form.js:**

function show\_details(){

var firstName=document.f1.fname.value;

alert("First name is "+firstName);

var lastName=document.f1.lname.value;

alert("last name is "+lastName);

var dateOfBirth=document.f1.DOB.value;

alert("Date of birth is "+dateOfBirth);

var country=document.f1.country.value;

alert("Country name is "+country);

var profession=document.f1.profession.value;

alert("Profesion is "+profession);

var email=document.f1.email.value;

alert("Email id is "+email);

var phno=document.f1.phone.value;

alert("Phone number is "+phno);

}

function validate(){

var firstName=document.f1.fname.value;

if(firstName == ""){

alert("Please enter your first name");

document.f1.fname.focus;

return false;

}

var lastName=document.f1.lname.value;

if(lastName == ""){

alert("Please enter your last name");

document.f1.lname.focus;

return false;

}

var dateOfBirth=document.f1.DOB.value;

if(dateOfBirth == ""){

alert("Please enter your date of birth");

document.f1.DOB.focus;

return false;

}

var country=document.f1.country.value;

if(country == ""){

alert("Please enter your country");

document.f1.country.focus;

return false;

}

var profession=document.f1.profession.value;

if(profession == ""){

alert("Please enter your profession ");

document.f1.profession.focus;

return false;

}

var email=document.f1.email.value;

if(email == ""){

alert("Please enter your mail id");

document.f1.email.focus;

return false;

}

var phno=document.f1.phone.value;

var len=phno.length;

if(phno == "" || len!=10){

alert("Please enter valid phonenumber");

document.f1.phone.focus;

return false;

}

show\_details();

}