# **PRACTICAL – 1**

**AIM: Design a User Interface for a) Welcome screen b) Multiplication and Addition of any two numbers**

* **Code of Welcome.html:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

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

<title>Welcome</title>

<style>

\* {

box-sizing: border-box;

padding: 0;

margin: 0;

font-family: "Times New Roman", Times, serif;

}

html {

width: 100%;

height: 100%;

background: linear-gradient(#e66465, #9198e5, rgb(1, 59, 250));

background-repeat: no-repeat;

}

#box {

display: flex;

width: 40%;

height: 60%;

background-color: white;

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

border: none;

z-index: 999;

border-radius: 18px;

background-color: rgba(255, 255, 255, 0.479);

box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);

backdrop-filter: blur(10px);

}

#box a {

display: flex;

width: 100%;

flex-wrap: wrap;

font-weight: 700;

text-align: center;

text-transform: uppercase;

align-items: center;

justify-content: center;

font-size: 48px;

border: none;

text-decoration: none;

color: #2030e0;

border-radius: 18px;

box-shadow: rgba(0, 0, 0, 0.548) 20px 10px 30px 20px;

}

#box a:hover{

color: #074feb;

text-decoration: underline;

cursor: pointer;

}

</style>

</head>

<body>

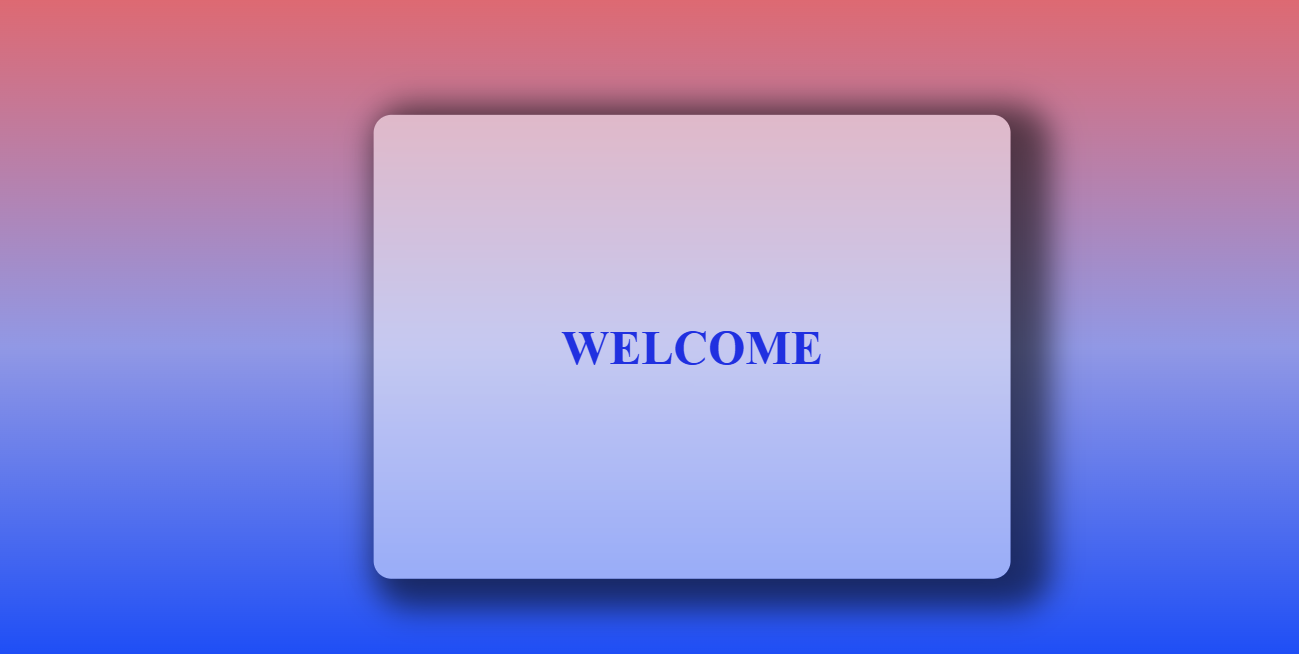
<div id="box">

<a href="cal.html">Welcome</a>

</div>

</body>

</html>

* **Output:**
* **Code of cal.html:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

<meta name="viewport" content="width=device-width, initial-scale=1" />

<title>Simple Calculator</title>

<style>

body {

background: linear-gradient(#e66465, #9198e5, rgb(1, 59, 250));

display: flex;

justify-content: center;

align-items: center;

height: 100vh;

margin: 0;

}

.calculator {

background: #ffffffdd;

padding: 2rem 3rem;

border-radius: 15px;

box-shadow: rgba(0, 0, 0, 0.548) 20px 10px 30px 20px;

text-align: center;

width: 300px;

}

input[type="number"] {

width: 120px;

padding: 0.5rem;

margin: 0.5rem 0.25rem;

font-size: 1.1rem;

border-radius: 8px;

border: 1.5px solid #a777e3;

outline-color: #6e8efb;

}

button {

padding: 0.55rem 1.5rem;

margin: 0.5rem 0.5rem 1rem 0.5rem;

font-size: 1.3rem;

border: none;

border-radius: 12px;

background-color: #6e8efb;

color: white;

cursor: pointer;

transition: background-color 0.3s ease;

}

button:hover {

background-color: #a777e3;

}

#result {

display: block;

font-size: 1.5rem;

font-weight: 600;

color: #4a2c9f;

min-height: 2em;

margin-top: 0.5rem;

}

</style>

</head>

<body>

<div class="calculator">

<input type="number" name="num1" id="num1" placeholder="Enter a number" />

<input type="number" name="num2" id="num2" placeholder="Enter a number" />

<div>

<button id="plus" title="Add">+</button>

<button id="mul" title="Multiply">\*</button>

</div>

<label id="result" aria-live="polite"></label>

</div>

<script type="text/javascript">

let btnPlus = document.getElementById("plus");

let btnMul = document.getElementById("mul");

let input1 = document.getElementById("num1");

let input2 = document.getElementById("num2");

let resultLabel = document.getElementById("result");

function parseInputs() {

let val1 = parseFloat(input1.value);

let val2 = parseFloat(input2.value);

return { val1, val2 };

}

btnPlus.addEventListener("click", function (event) {

const { val1, val2 } = parseInputs();

if (isNaN(val1) || isNaN(val2)) {

resultLabel.textContent =

"Please enter valid numbers in both fields.";

return;

}

const sum = val1 + val2;

resultLabel.textContent = `${val1} + ${val2} = ${sum}`;

});

btnMul.addEventListener("click", function (event) {

const { val1, val2 } = parseInputs();

if (isNaN(val1) || isNaN(val2)) {

resultLabel.textContent =

"Please enter valid numbers in both fields.";

return;

}

const product = val1 \* val2;

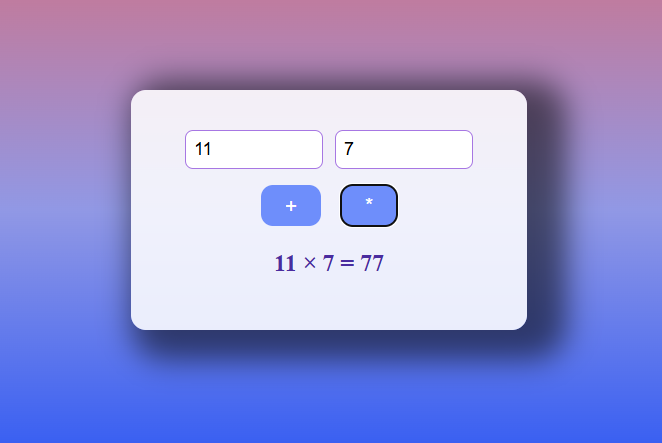
resultLabel.textContent = `${val1} × ${val2} = ${product}`;

});

</script>

</body>

</html>

* **Output:**

# **PRACTICAL – 2**

**AIM: 2.1. Design an user interface for assigning a grade to students based on the subjects marks**

**2.2. Design an User interface for printing the numbers in a) Ascending order b) Descending order c) Subtraction**

* **Code:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

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

<title>Grade</title>

<style>

\* {

box-sizing: border-box;

padding: 0;

margin: 0;

font-family: "Times New Roman", Times, serif;

}

html {

width: 100%;

height: 100%;

background: linear-gradient(#e66465, #9198e5, rgb(1, 59, 250));

background-repeat: no-repeat;

}

#box {

display: flex;

justify-content: center;

align-items: center;

align-content: center;

flex-direction: column;

width: 40%;

height: 60%;

background-color: white;

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

border: none;

z-index: 999;

border-radius: 18px;

background-color: rgba(255, 255, 255, 0.479);

box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);

backdrop-filter: blur(10px);

}

input[type="text"] {

width: 200px;

text-align: center;

height: 25px;

padding: 0.5rem;

margin: 0.5rem 0.25rem;

font-size: 1.1rem;

border-radius: 8px;

border: 1.5px solid #a777e3;

outline-color: #6e8efb;

}

button {

padding: 0.55rem 1.5rem;

margin: 0.5rem 0.5rem 1rem 0.5rem;

font-size: 1.3rem;

border: none;

border-radius: 12px;

background-color: #6e8efb;

color: white;

cursor: pointer;

transition: background-color 0.3s ease;

}

button:hover {

background-color: #a777e3;

}

#result {

display: block;

font-size: 1.5rem;

font-weight: 600;

color: #4a2c9f;

min-height: 2em;

margin-top: 0.5rem;

}

.header\_text {

color: black;

font-size: 18px;

font-weight: 600;

margin: 10px 0px;

}

</style>

</head>

<body>

<div id="box">

<label for="marks" class="header\_text"> Enter Marks to see your grade</label>

<input type="text" id="marks" name="marks" placeholder="Enter Grade" />

<label id="result"></label>

<label for="num" class="header\_text"> Enter numbers in comma seprated to see Ascending order and Descending order</label>

<input type="text" id="num" name="num" placeholder="Enter number" />

<label id="result2"></label>

<label id="result3"></label>

<label for="num2" class="header\_text"> Enter Two numbers to perform subtraction </label>

<div>

<input type="text" id="num2" name="num2" placeholder="Enter first operand" />

<input type="text" id="num3" name="num3" placeholder="Enter second operand" />

</div>

<label id="result4"></label>

<button id="subtraction">Subtraction</button>

</div>

<script>

let inp\_grade = document.getElementById("marks");

let result = document.getElementById("result");

let inp\_num = document.getElementById("num");

let result2 = document.getElementById("result2");

let result3 = document.getElementById("result3");

let inp\_num2 = document.getElementById("num2");

let inp\_num3 = document.getElementById("num3");

let result4 = document.getElementById("result4");

let subtraction = document.getElementById("subtraction");

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

let num1 = Number(inp\_num2.value);

let num2 = Number(inp\_num3.value);

if (isNaN(num1) || isNaN(num2)) { result4.textContent = "Please enter valid numbers."; }

else { result4.textContent = "Subtraction Result: " + (num1 - num2); }

});

inp\_num.addEventListener("input", function () {

let numbers = inp\_num.value.split(",").map(Number);

if (numbers.some(isNaN)) {

result2.textContent = "Please enter valid numbers.";

result3.textContent = "";

} else {

let asc = [...numbers].sort((a, b) => a - b);

let desc = [...numbers].sort((a, b) => b - a);

result2.textContent = "Ascending Order: " + asc.join(", ");

result3.textContent = "Descending Order: " + desc.join(", ");

}

});

inp\_grade.addEventListener("input", function () {

let grade = Number(inp\_grade.value);

if (grade >= 80 && grade <= 100) {

result.textContent = "Grade is A";

} else if (grade >= 70 && grade < 80) {

result.textContent = "Grade is B";

} else if (grade >= 60 && grade < 70) {

result.textContent = "Grade is C";

} else if (grade >= 50 && grade < 60) {

result.textContent = "Grade is D";

} else if (grade >= 0 && grade < 50) {

result.textContent = "Grade is F";

} else {

result.textContent = "";

}

});

</script>

</body>

</html>

* A screenshot of a computer

  AI-generated content may be incorrect.**Output:**

# **PRACTICAL – 3**

**AIM: 3.1 Design an user interface for calculator**

**3.2 Design a user interface for registration of a student for admissions.**

* **Code of 3.1:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Calculator</title>

</head>

<style>

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

html, body {

width: 100%;

height: 100%;

display: flex;

justify-content: center;

align-items: center;

background-color: #f7f7f7;

font-family: Arial, sans-serif;

background: linear-gradient(whitesmoke, rgb(196, 219, 226), lightblue, rgb(140, 186, 201));

background-repeat: no-repeat;

}

table {

width: 300px;

height: 400px;

background-color: #333;

border-radius: 10px;

overflow: hidden;

box-shadow: 0 4px 15px rgba(0, 0, 0, 0.2);

}

#result {

background-color: #222;

font-size: 32px;

font-weight: 800;

color: white;

text-align: right;

padding-right: 10px;

border-bottom: 1px solid #444;

}

#result td {

width: 100%;

}

#textbox {

display: block;

width: 100%;

}

button {

width: 50px;

height: 50px;

border-radius: 50%;

font-size: 18px;

border: none;

color: white;

cursor: pointer;

transition: background-color 0.3s;

}

.btns td {

width: 25%;

}

#zero {

width: 110px;

border-radius: 25px;

}

#clear {

background-color: #ff9500;

}

#abs, #mod, #divi, #mul, #subs, #adds {

background-color: #ff9500;

}

#exe {

background-color: #ff9500;

}

button:hover {

background-color: #ffbf47;

}

.nums {

background-color: #505050;

}

</style>

<body>

<table>

<tr id="result" name="result">

<td colspan="4"> <label for="result" id="textbox">0</label></td>

</tr>

<tr class="btns">

<td align="center"><button type="button"

id="clear">AC</button></td>

<td align="center"><button type="button"

id="abs">+/-</button></td>

<td align="center"><button type="button" id="mod"

class="nums">%</button></td>

<td align="center"><button type="button" id="divi"

class="nums">&divide;</button></td>

</tr>

<tr class="btns">

<td align="center"><button class="nums"

type="button">7</button></td>

<td align="center"><button class="nums"

type="button">8</button></td>

<td align="center"><button class="nums"

type="button">9</button></td>

<td align="center"><button type="button" id="mul"

class="nums">x</button></td>

</tr>

<tr class="btns">

<td align="center"><button class="nums"

type="button">4</button></td>

<td align="center"><button class="nums"

type="button">5</button></td>

<td align="center"><button class="nums"

type="button">6</button></td>

<td align="center"><button type="button" id="subs"

class="nums">-</button></td>

</tr>

<tr class="btns">

<td align="center"><button class="nums"

type="button">1</button></td>

<td align="center"><button class="nums"

type="button">2</button></td>

<td align="center"><button class="nums"

type="button">3</button></td>

<td align="center"><button type="button" id="adds"

class="nums">+</button></td>

</tr>

<tr class="btns">

<td colspan="2" align="center"><button type="button" id="zero"

class="nums">0</button></td>

<td align="center"><button type="button"

class="nums">.</button></td>

<td align="center"><button type="button"

id="exe">=</button></td>

</tr>

</table>

</body>

<script>

const buttons = document.querySelectorAll('button.nums');

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

let firstValue = null;

let operator = null;

let isOperatorPressed = false;

buttons.forEach(function(button) {

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

if (result.innerText === '0' || isOperatorPressed) {

result.innerText = this.innerText;

isOperatorPressed = false;

} else {

result.innerText += this.innerText;

}

});

});

document.getElementById('clear').addEventListener('click', () => {

result.innerText = '0';

firstValue = null;

operator = null;

isOperatorPressed = false;

});

document.getElementById('abs').addEventListener('click', () => {

let currentValue = result.innerText;

if (currentValue.charAt(0) === '-') {

result.innerText = currentValue.slice(1);

} else {

result.innerText = '-' + currentValue;

}

});

document.querySelectorAll('#adds, #subs, #mul, #divi, #mod').forEach(function(button) {

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

if (result.innerText !== '') {

if (firstValue !== null && operator !== null) {

const secondValue = parseFloat(result.innerText);

let computation;

switch (operator) {

case '+':

computation = firstValue + secondValue;

break;

case '-':

computation = firstValue - secondValue;

break;

case '\*':

computation = firstValue \* secondValue;

break;

case '/':

computation = firstValue / secondValue;

break;

case '%':

computation = firstValue % secondValue;

break;

}

result.innerText = computation.toString();

firstValue = computation;

} else {

firstValue = parseFloat(result.innerText);

}

operator = this.innerText === 'x' ? '\*' : (this.innerText === '÷' ? '/' : this.innerText);

isOperatorPressed = true;

}

});

});

document.getElementById('exe').addEventListener('click', () => {

if (firstValue !== null && operator !== null) {

const secondValue = parseFloat(result.innerText);

let computation;

switch (operator) {

case '+':

computation = firstValue + secondValue;

break;

case '-':

computation = firstValue - secondValue;

break;

case '\*':

computation = firstValue \* secondValue;

break;

case '/':

computation = firstValue / secondValue;

break;

case '%':

computation = firstValue % secondValue;

break;

default:

computation = secondValue;

}

result.innerText = computation.toString();

firstValue = computation;

operator = null;

isOperatorPressed = false;

}

});

</script>

</html>

* **A calculator with orange and black buttons

  AI-generated content may be incorrect.Output:**
* **Code of 3.2:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Registration Form</title>

<style>

html {

width: 100%;

height: 100%;

background: linear-gradient( rgba(173, 216, 230, 0.800), rgba(173, 216, 230, 0.700), rgba(173, 216, 230, 0.600), rgba(173, 216, 230, 0.500));

background-repeat: no-repeat;

}

form {

display: flex;

justify-content: center;

align-items: center;

height: 70%;

width: 35%;

font-family: Arial, sans-serif;

background-color: whitesmoke;

box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);

backdrop-filter: blur(10px);

border-radius: 10px;

padding: 20px;

box-sizing: border-box;

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

}

input[type="text"], input[type="email"], input[type="tel"]{

width: 200px;

height: 25px;

text-align: center;

padding: 0.5rem;

margin: 0.5rem 0.25rem;

font-size: 1.1rem;

border-radius: 8px;

border: 1.5px solid #a777e3;

outline-color: #6e8efb;

}

select{

width: 217px;

margin: 0.5rem 0.25rem;

padding: 0.5rem;

font-size: 1.1rem;

border-radius: 8px;

border: 1.5px solid #a777e3;

outline-color: #6e8efb;

}

button {

padding: 0.55rem 1.5rem;

margin: 0.5rem 0.5rem 1rem 0.5rem;

font-size: 1.3rem;

border: none;

border-radius: 12px;

background-color: #6e8efb;

color: white;

cursor: pointer;

transition: background-color 0.3s ease;

}

button:hover {

background-color: #a777e3;

}

</style>

</head>

<body>

<form action="#" enctype="multipart/form-data">

<table align="center" width="400px" height="400px">

<caption> <h2>Admission Form</h2> </caption>

<tr>

<td><label for="name">Full Name:</label></td>

<td><input type="text" name="name" id="name" placeholder="ex John Marston"></td>

</tr>

<tr>

<td><label for="marks">Marks(Diploma/12th):</label></td>

<td><input type="text" name="marks" id="marks" placeholder="CGPA/percentage"></td>

</tr>

<tr>

<td><label for="email">Email:</label></td>

<td><input type="email" name="email" id="email" placeholder="example@gmail.com"></td>

</tr>

<tr>

<td><label for="gender">Gender:</label></td>

<td>

<input type="radio" name="gender" id="male" value="male">

<label for="male">Male</label>

<input type="radio" name="gender" id="female" value="female">

<label for="female">Female</label>

</td>

</tr>

<tr>

<td><label for="city">City:</label></td>

<td>

<select name="city" id="city">

<option value="new\_york">New York</option>

<option value="los\_angeles">Los Angeles</option>

<option value="chicago">Chicago</option>

<option value="houston">Houston</option>

<option value="phoenix">Tahiti</option>

</select>

</td>

</tr>

<tr>

<td><label for="phone">Personal Phone Number:</label></td>

<td><input type="tel" name="phone" id="phone" placeholder="+91 123456789"></td>

</tr>

<tr>

<td><label for="phone">Parent's Phone Number:</label></td>

<td><input type="tel" name="phone" id="phone" placeholder="+91 123456789"></td>

</tr>

<tr>

<td colspan="2" align="center">

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

<button type="reset">Reset</button>

</td>

</tr>

</table>

</form>

</body>

</html>

* A screenshot of a registration form

  AI-generated content may be incorrect.**Output:**

# **PRACTICAL – 4**

**AIM: 4.1 Design an user interface for semester registration**

**4.2 Design an user interface for displaying and changing of picture on the form**

**4.3 Design an user interface for To count the number of digits in a given number**

* **Code of 4.1:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Semester Form</title>

<style>

html {

width: 100%;

height: 100%;

background: linear-gradient( rgba(173, 216, 230, 0.800), rgba(173, 216, 230, 0.700), rgba(173, 216, 230, 0.600), rgba(173, 216, 230, 0.500));

background-repeat: no-repeat;

}

form {

display: flex;

justify-content: center;

align-items: center;

height: 70%;

width: 35%;

font-family: Arial, sans-serif;

background-color: whitesmoke;

box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);

backdrop-filter: blur(10px);

border-radius: 10px;

padding: 20px;

box-sizing: border-box;

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

}

input[type="text"], input[type="email"], input[type="tel"]{

width: 200px;

height: 25px;

text-align: center;

padding: 0.5rem;

margin: 0.5rem 0.25rem;

font-size: 1.1rem;

border-radius: 8px;

border: 1.5px solid #a777e3;

outline-color: #6e8efb;

}

select{

width: 217px;

margin: 0.5rem 0.25rem;

padding: 0.5rem;

font-size: 1.1rem;

border-radius: 8px;

border: 1.5px solid #a777e3;

outline-color: #6e8efb;

}

button {

padding: 0.55rem 1.5rem;

margin: 0.5rem 0.5rem 1rem 0.5rem;

font-size: 1.3rem;

border: none;

border-radius: 12px;

background-color: #6e8efb;

color: white;

cursor: pointer;

transition: background-color 0.3s ease;

}

button:hover { background-color: #a777e3; }

</style>

</head>

<body>

<form action="#" enctype="multipart/form-data">

<table align="center" width="400px" height="400px">

<caption> <h2>Semester Form</h2> </caption>

<tr>

<td><label for="name">Full Name:</label></td>

<td><input type="text" name="name" id="name" placeholder="ex John Marston"></td>

</tr>

<tr>

<td><label for="marks">Enrollment No</label></td>

<td><input type="text" name="eno" id="eno" placeholder="Enrollment no"></td>

</tr>

<tr>

<td><label for="email">Email:</label></td>

<td><input type="email" name="email" id="email" placeholder="example@gmail.com"></td>

</tr>

<tr>

<td><label for="selective\_sub\_1">Elective subject 1</label></td>

<td>

<input type="radio" name="sub1" id="DS" value="DS">

<label for="DS">Data Structure</label>

<input type="radio" name="sub1" id="JAVA" value="JAVA">

<label for="JAVA">JAVA</label>

</td>

</tr>

<tr>

<td><label for="sub2">Elective subject 2</label></td>

<td>

<select name="sub2" id="sub2">

<option value="C">C</option>

<option value="Android">Android</option>

<option value="PHP">PHP</option>

<option value="python">Python</option>

</select>

</td>

</tr>

<tr>

<td><label for="phone">Phone Number:</label></td>

<td><input type="tel" name="phone" id="phone" placeholder="+91 123456789"></td>

</tr>

<tr>

<td colspan="2" align="center">

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

<button type="reset">Reset</button>

</td>

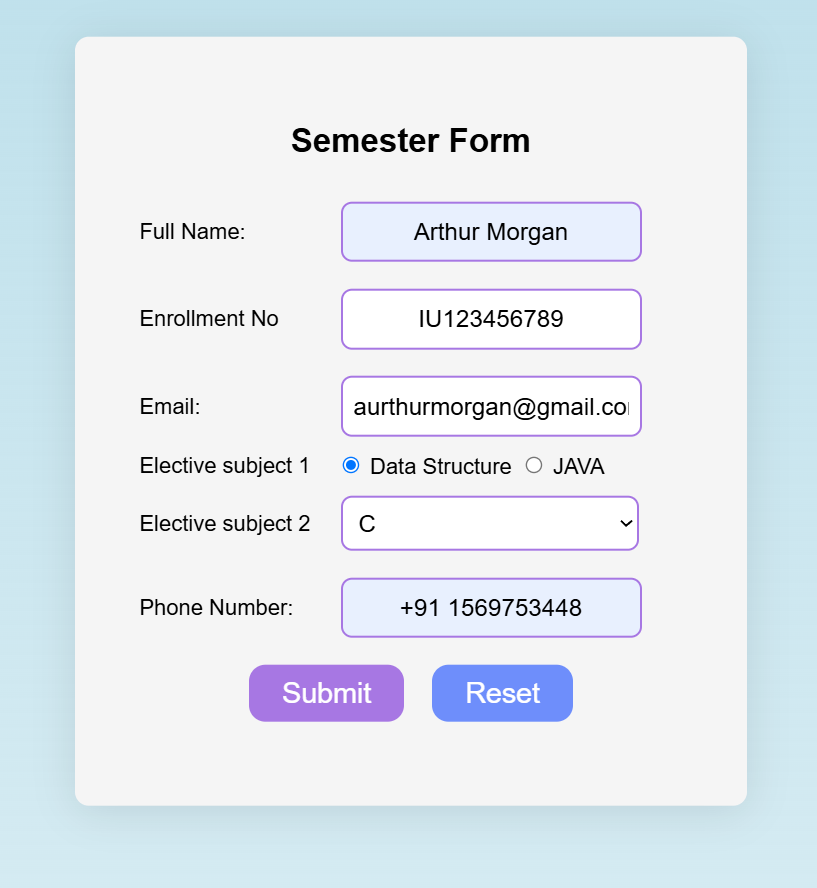
</tr>

</table>

</form>

</body>

</html>

* **Output:**
* **Code of 4.2:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title> Images </title>

<style>

html {

width: 100%;

height: 100%;

background: linear-gradient( rgba(173, 216, 230, 0.800), rgba(173, 216, 230, 0.700), rgba(173, 216, 230, 0.600), rgba(173, 216, 230, 0.500));

background-repeat: no-repeat;

}

form {

height: 80%;

width: 90%;

padding: 10px;

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

font-family: Arial, sans-serif;

background-color: whitesmoke;

box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);

backdrop-filter: blur(10px);

border-radius: 10px;

box-sizing: border-box;

}

button {

padding: 0.45rem 1.1rem;

font-size: 1rem;

border: none;

border-radius: 12px;

background-color: #6e8efb;

color: white;

cursor: pointer;

transition: background-color 0.3s ease;

}

button:hover { background-color: #a777e3; }

#header\_text {

margin-bottom: 20px;

font-size: 2rem;

color: #333;

text-align: center;

font-weight: 900;

text-transform: uppercase;

}

.grid-container {

display: grid;

grid-template-columns: repeat(4, 1fr);

gap: 10px;

padding: 10px;

}

.box {

padding: 20px;

background-color: #f0f0f0;

border: 1px solid #ccc;

border-radius: 8px;

text-align: center;

font-size: 1.5rem;

color: #333;

}

</style>

</head>

<body>

<form action="#" enctype="multipart/form-data">

<p id="header\_text"> Images </p>

<div class="grid-container">

<div class="box">

<button class="img-btn" id="btn1">Select Image</button>

<input type="file" id="file1" style="display:none" accept="image/\*">

</div>

<div class="box">

<button class="img-btn" id="btn2">Select Image</button>

<input type="file" id="file2" style="display:none" accept="image/\*">

</div>

<div class="box">

<button class="img-btn" id="btn3">Select Image</button>

<input type="file" id="file3" style="display:none" accept="image/\*">

</div>

<div class="box">

<button class="img-btn" id="btn4">Select Image</button>

<input type="file" id="file4" style="display:none" accept="image/\*">

</div>

<div class="box">

<button class="img-btn" id="btn5">Select Image</button>

<input type="file" id="file5" style="display:none" accept="image/\*">

</div>

<div class="box">

<button class="img-btn" id="btn6">Select Image</button>

<input type="file" id="file6" style="display:none" accept="image/\*">

</div>

<div class="box">

<button class="img-btn" id="btn7">Select Image</button>

<input type="file" id="file7" style="display:none" accept="image/\*">

</div>

<div class="box">

<button class="img-btn" id="btn8">Select Image</button>

<input type="file" id="file8" style="display:none" accept="image/\*">

</div>

</div>

</form>

<script>

for (let i = 1; i <= 8; i++) {

const btn = document.getElementById(`btn${i}`);

const fileInput = document.getElementById(`file${i}`);

const box = btn.parentElement;

btn.addEventListener('click', (e) => {

e.preventDefault();

fileInput.click();

});

fileInput.addEventListener('change', () => {

const file = fileInput.files[0];

if (file && file.type.startsWith("image/")) {

const reader = new FileReader();

reader.onload = function(e) {

const existingImg = box.querySelector("img");

if (existingImg) existingImg.remove();

const img = document.createElement("img");

img.src = e.target.result;

img.style.maxWidth = "100%";

img.style.maxHeight = "150px";

img.style.marginTop = "10px";

box.appendChild(img);

btn.textContent = "Change Image";

};

reader.readAsDataURL(file);

}

});

}

</script>

</body>

</html>

* A screenshot of a computer

  AI-generated content may be incorrect.**Output:**
* **Code of 4.3:**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Count Digits</title>

<style>

html {

width: 100%;

height: 100%;

background: linear-gradient(rgba(173, 216, 230, 0.800), rgba(173, 216, 230, 0.700), rgba(173, 216, 230, 0.600), rgba(173, 216, 230, 0.500));

}

form {

height: 40%;

width: 40%;

padding: 10px;

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

display: flex;

flex-direction: column;

align-items: center;

background-color: whitesmoke;

box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);

backdrop-filter: blur(10px);

border-radius: 10px;

}

input[type="text"] {

width: 200px;

height: 25px;

text-align: center;

padding: 0.5rem;

margin: 0.5rem 0.25rem;

font-size: 1.1rem;

border-radius: 8px;

border: 1.5px solid #a777e3;

outline-color: #6e8efb;

}

#header\_text {

margin-bottom: 20px;

font-size: 2rem;

color: #333;

text-align: center;

font-weight: 900;

text-transform: uppercase;

}

#result {

margin-top: 20px;

font-size: 1.3rem;

color: #333;

}

</style>

</head>

<body>

<form action="#" onsubmit="return false;">

<p id="header\_text">Enter a Number</p>

<input type="text" id="num" name="num" placeholder="Enter number" />

<label id="result"></label>

</form>

<script>

const numInput = document.getElementById('num');

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

numInput.addEventListener('input', function () {

const value = numInput.value;

const digitMatches = value.match(/\d/g);

if (value === '') { resultLabel.textContent = ''; }

else {

const count = digitMatches ? digitMatches.length : 0;

resultLabel.textContent = `The number of digits is: ${count}`;

}

});

</script>

</body>

</html>

* **A screenshot of a computer

  AI-generated content may be incorrect.Output:**

# **PRACTICAL – 5**

**AIM: 5.1 Design an user interface for simple sort program**

**5.2 Design an User interface User interest form, Making suggestion form**

**5.3 Design an user interface to check whether the year is leap year or not**

**5.4 Design an user interface for menu based Program**

* **Code of 5.1:**

<!DOCTYPE html>

<html lang="en">

<head>

<title>Count number</title>

<style>

html {

width: 100%;

height: 100%;

background: linear-gradient(rgba(173, 216, 230, 0.8), rgba(173, 216, 230, 0.7), rgba(173, 216, 230, 0.6), rgba(173, 216, 230, 0.5));

background-repeat: no-repeat;

}

form {

height: 50%;

width: 45%;

display: flex;

flex-direction: column;

justify-content: center;

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

align-items: center;

padding: 20px;

font-family: Arial, sans-serif;

background-color: whitesmoke;

box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);

backdrop-filter: blur(10px);

border-radius: 10px;

box-sizing: border-box;

}

input[type="text"] {

width: 200px;

height: 25px;

text-align: center;

padding: 0.5rem;

margin: 0.5rem 0.25rem;

font-size: 1.1rem;

border-radius: 8px;

border: 1.5px solid #a777e3;

outline-color: #6e8efb;

}

.header\_text {

font-size: 1.2rem;

font-weight: bold;

margin-bottom: 10px;

text-align: center;

}

</style>

</head>

<body>

<form action="#" enctype="multipart/form-data">

<label for="num" class="header\_text">

Enter numbers in comma seprated to see Ascending order and Descending order</label>

<input type="text" id="num" name="num" placeholder="Enter number" />

<label id="result2"></label>

<label id="result3"></label>

</form>

<script>

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

const result2 = document.getElementById("result2");

const result3 = document.getElementById("result3");

num.addEventListener("input", () => {

const values = num.value.split(",").map(Number);

const ascending = [...values].sort((a, b) => a - b);

const descending = [...values].sort((a, b) => b - a);

result2.textContent = "Ascending: " + ascending.join(", ");

result3.textContent = "Descending: " + descending.join(", ");

});

</script>

</body>

</html>

* A screenshot of a computer

  AI-generated content may be incorrect.**Output:**
* **Code of 5.2: <!DOCTYPE html>**

<html lang="en">

<head>

<meta charset="UTF-8" />

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

<title>Contact Us Form</title>

<style>

html {

width: 100%;

height: 100%;

background: linear-gradient(rgba(173, 216, 230, 0.8), rgba(173, 216, 230, 0.7), rgba(173, 216, 230, 0.6), rgba(173, 216, 230, 0.5));

background-repeat: no-repeat;

}

form {

display: flex;

justify-content: center;

align-items: center;

height: 70%;

width: 35%;

font-family: Arial, sans-serif;

background-color: whitesmoke;

box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);

backdrop-filter: blur(10px);

border-radius: 10px;

padding: 20px;

box-sizing: border-box;

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

}

input[type="text"], input[type="email"], input[type="tel"], textarea {

width: 200px;

height: 25px;

text-align: center;

padding: 0.5rem;

margin: 0.5rem 0.25rem;

font-size: 1.1rem;

border-radius: 8px;

border: 1.5px solid #a777e3;

outline-color: #6e8efb;

}

select {

width: 217px;

margin: 0.5rem 0.25rem;

padding: 0.5rem;

font-size: 1.1rem;

border-radius: 8px;

border: 1.5px solid #a777e3;

outline-color: #6e8efb;

}

button {

padding: 0.55rem 1.5rem;

margin: 0.5rem 0.5rem 1rem 0.5rem;

font-size: 1.3rem;

border: none;

border-radius: 12px;

background-color: #6e8efb;

color: white;

cursor: pointer;

transition: background-color 0.3s ease;

}

button:hover { background-color: #a777e3; }

</style>

</head>

<body>

<form action="#" enctype="multipart/form-data">

<table align="center" width="400px" height="400px">

<caption>

<h2>Contact US</h2>

</caption>

<tr>

<td><label for="name">Full Name:</label></td>

<td>input type="text" name="name" id="name" placeholder="ex Arthur Morgan"/><td>

</tr>

<tr>

<td><label for="email">Email:</label></td>

<td>

<input type="email" name="email" id="email" placeholder="example@gmail.com"/>

</td>

</tr>

<tr>

<td><label for="phone">Phone Number:</label></td>

<td>

<input type="tel" name="phone" id="phone" placeholder="+91 123456789"/>

</td>

</tr>

<tr>

<td><label for="Interests">Interests:</label></td>

</tr>

<tr>

<td colspan="2" style="width:100%; ">

<textarea wrap="soft" name="Interests" id="Interests" placeholder="Your Interests" style="width:100%;"></textarea>

</td>

</tr>

<tr>

<td colspan="2" align="center">

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

<button type="reset">Reset</button>

</td>

</tr>

</table>

</form>

</body>

</html>

* A screenshot of a contact us form

  AI-generated content may be incorrect.**Output:**
* **Code of 5.3:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

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

<title>Leap Year Checker</title>

<style>

html {

width: 100%;

height: 100%;

background: linear-gradient(rgba(173, 216, 230, 0.8),rgba(173, 216, 230, 0.7),rgba(173, 216, 230, 0.6),rgba(173, 216, 230, 0.5));

background-repeat: no-repeat;

}

form {

height: 40%;

width: 35%;

display: flex;

flex-direction: column;

justify-content: center;

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

align-items: center;

padding: 20px;

font-family: Arial, sans-serif;

background-color: whitesmoke;

box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);

backdrop-filter: blur(10px);

border-radius: 10px;

box-sizing: border-box;

}

input[type="text"] {

width: 200px;

height: 25px;

text-align: center;

padding: 0.5rem;

margin: 0.5rem 0.25rem;

font-size: 1.1rem;

border-radius: 8px;

border: 1.5px solid #a777e3;

outline-color: #6e8efb;

}

.header\_text {

font-size: 1.2rem;

font-weight: bold;

margin-bottom: 10px;

text-align: center;

}

</style>

</head>

<body>

<form action="#" enctype="multipart/form-data">

<label for="num" class="header\_text">

Enter year to Check Leap Year</label>

<input type="text" id="num" name="num" placeholder="Enter year" />

<label id="result2"></label>

</form>

<script>

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

const result2 = document.getElementById("result2");

num.addEventListener("input", () => {

const year = parseInt(num.value);

if (isNaN(year)) {

result2.textContent = "Please enter a valid year.";

return;

}

if ((year % 4 === 0 && year % 100 !== 0) || (year % 400 === 0)) {

result2.textContent = year + " is a leap year.";

} else {

result2.textContent = year + " is not a leap year.";

}

});

</script>

</body>

</html>

* **A screenshot of a computer

  AI-generated content may be incorrect.Output:**
* **Code of 5.4:**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

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

<title>Menu Based Program</title>

<style>

html {

width: 100%;

height: 100%;

background: linear-gradient(rgba(173, 216, 230, 0.8), rgba(173, 216, 230, 0.7), rgba(173, 216, 230, 0.6), rgba(173, 216, 230, 0.5));

background-repeat: no-repeat;

}

body { font-family: Arial, sans-serif; margin: 40px; }

form {

height: 50%;

width: 45%;

display: flex;

flex-direction: column;

justify-content: center;

position: absolute;

top: 50%;

left: 50%;

transform: translate(-50%, -50%);

align-items: center;

padding: 20px;

font-family: Arial, sans-serif;

background-color: whitesmoke;

box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);

backdrop-filter: blur(10px);

border-radius: 10px;

box-sizing: border-box;

}

.header\_text {

font-size: 1.2rem;

font-weight: bold;

margin-bottom: 10px;

text-align: center;

}

.menu { margin-bottom: 20px; display: flex; flex-direction: column; gap: 10px; }

button {

padding: 0.45rem 1.1rem;

font-size: 1rem;

border: none;

border-radius: 12px;

background-color: #6e8efb;

color: white;

cursor: pointer;

transition: background-color 0.3s ease;

}

button:hover { background-color: #a777e3; }

#output { margin-top: 30px; font-weight: bold; }

</style>

</head>

<body>

<form action="#" enctype="multipart/form-data">

<!-- Design an user interface for menu based Program -->

<h2>Menu</h2>

<div class="menu">

<button onclick="showOption(1)">Show Date</button>

<button onclick="showOption(2)">Show Time</button>

<button onclick="showOption(3)">About</button>

<button onclick="showOption(0)">Exit</button>

</div>

<div id="output"></div>

</form>

<script>

function showOption(option) {

const output = document.getElementById('output');

switch(option) {

case 1:

output.textContent = "Today's date is: " + new Date().toLocaleDateString();

break;

case 2:

output.textContent = "Current time is: " + new Date().toLocaleTimeString();

break;

case 3:

output.textContent = "Basic web for Time show";

break;

case 0:

output.textContent = "Thank you!!";

break;

default:

output.textContent = "";

}

}

</script>

</body>

</html>

* **A screenshot of a menu

  AI-generated content may be incorrect.A screenshot of a menu

  AI-generated content may be incorrect.A screenshot of a menu

  AI-generated content may be incorrect.A screenshot of a menu

  AI-generated content may be incorrect.Output:**