Lab2

Q1:

Index.html :

```html
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="style.css">
</head>
<body>
<div id="container">
<table>
<tr><td>A1</td><td>A2</td><td>A3</td></tr>
<tr><td>B1</td><td>B2</td><td>B3</td></tr>
<tr><td>C1</td><td>C2</td><td><img src="cake.jpeg" alt="Cake"></td></tr>
</table>
<!-- <img src="cake.jpeg" alt="Cake"> -->
</div>
<button id="move">Move</button>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script >
$("#move").click(() => {
$("#container").css("left", "0");
});
</script>
</body>
</html>
```

Style.css:

```css
table {
border-collapse: collapse;
}
td {
border: 1px solid #000;
padding: 10px;
}
tr:nth-child(even) {
background: orange;
}
tr:nth-child(odd) {
background: orangered;
}
#container {
position: relative;
left: 100%;
transition: left 2s;
}
```

Output:

Q2:

Index.html :

```html
<!DOCTYPE html>
<html>
<head>
<title>Simple Calculator</title>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<link rel="stylesheet" href="style.css">
</head>
<body>
<h2> Calculator</h2>
<input type="text" id="num1" placeholder="First number">
<input type="text" id="num2" placeholder="Second number"><br>
<button id="add">+</button>
<button id="subtract">-</button>
<button id="multiply">×</button>
<button id="divide">÷</button>
<div id="result">Result: </div>
<script src="script.js"> </script>
</body>
</html>
```

Output:

Calculator

| 8 | 5.6 |

| + | - | × | ÷ |

Result: 44.8

Script.js:

```javascript
$(document).ready(function(){
function calculate(op) {
let n1 = parseFloat($("#num1").val());
let n2 = parseFloat($("#num2").val());
let res = "";

if(isNaN(n1) || isNaN(n2)) {
res = "Please enter valid numbers!";
} else {
switch(op) {
case "add": res = n1 + n2; break;
case "subtract": res = n1 - n2; break;
case "multiply": res = n1 * n2; break;
case "divide":
res = (n2 !== 0) ? (n1 / n2) : "Cannot divide by zero!";
break;
}
}
$("#result").text("Result: " + res);
}

// Button click events
$("#add").click(function(){ calculate("add"); });
$("#subtract").click(function(){ calculate("subtract"); });
$("#multiply").click(function(){ calculate("multiply"); });
$("#divide").click(function(){ calculate("divide"); });
});
```

Style.css:

```css
body {
font-family: Arial, sans-serif;
margin: 50px;
text-align: center;
}
input[type="text"] {
width: 100px;
padding: 5px;
margin: 5px;
text-align: center;
}
button {
padding: 10px 15px;
margin: 5px;
font-size: 16px;
cursor: pointer;
}
#result {
margin-top: 20px;
font-weight: bold;
font-size: 18px;
}
```

Q3:

Index.html:

```html
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="style.css">
</head>
<body>
<form id="controls">
<label>Background:</label> <select id="bg">
<option>Yellow</option><option>Pink</option>
<option>LightBlue</option><option>White</option>
</select><br>
<label>Font:</label> <select id="font">
<option>Verdana</option><option>Arial</option>
<option>Georgia</option><option>"Comic Sans MS"</option>
</select><br>
<input type="number" id="size" value="25"><br>
<label>Border:</label><br>
<input type="radio" name="border" value="none">None<br>
<input type="radio" name="border" value="double">Double<br>
<input type="radio" name="border" value="solid" checked>Solid<br><br>
<input type="checkbox" id="pic" checked>Add the Default Picture<br>
<label>Enter greeting text below:</label><br>
<textarea id="text">Happy Birthday, and many more</textarea><br>
<button type="button" id="update">Update</button>
</form>

<div id="card">
<p id="greet">Happy Birthday, and many more</p>
<img id="cake" src="cake.jpeg">
</div>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script src="script.js"></script>
</body>
</html>
```

style.css:

```css
body {
display: flex;
gap: 20px;
background-color: lightgoldenrodyellow;
}
#card {
width: 300px;
height: 300px;
padding: 10px;
}
#cake {
width: 50%;
padding-left: auto;
}
```

script.js:

```js
$("#update").click(() => {
$("#card").css({
"background": $("#bg").val(),
"font-family": $("#font").val(),
"font-size": $("#size").val() + "px",
"border": $("input[name='border']:checked").val()
});
$("#greet").text($("#text").val());
$("#cake").toggle($("#pic").is(":checked"));
});
```

Output:

Background: LightBlue ∨
Font: Georgia ∨
30 ⌄
Border:
○ None
◉ Double
○ Solid

☑ Add the Default Picture
Enter greeting text below:
Happy Birthday, and
many more
Update

Happy Birthday, and many more