

# Lab 2 — jQuery

---

**Name:** Aditya Sinha

**Reg. No:** 230905218

**Class & Section:** CSE-A1

**Roll No:** 27

---

## Question 1

Write a web page which contains table with 3 X 3 dimensions (fill some data) and one image. Style the rows with alternate color. Move the table and image together from right to left when button is clicked.

**Code:**

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width,initial-scale=1" />

    <style>
      body {
        font-family: Arial, Helvetica, sans-serif;
        background: #f6f8fb;
        padding: 24px;
      }
      h1 {
        text-align: center;
      }
      #stage {
        width: 90%;
        max-width: 900px;
        margin: 24px auto;
        border: 1px solid #ddd;
        padding: 16px;
        overflow: hidden;
        background: #fff;
      }
      #content {
        display: flex;
        gap: 24px;
        align-items: center;
        justify-content: flex-end;
        transition: transform 1s ease;
      }
      table {
        border-collapse: collapse;
```

```
}
table td,
table th {
    padding: 8px 12px;
    border: 1px solid #ccc;
}
table tr:nth-child(even) {
    background: #f9f9a6;
}
table tr:nth-child(odd) {
    background: #fff;
}
.controls {
    text-align: center;
    margin-top: 12px;
}
img.sample {
    width: 150px;
    height: 150px;
    object-fit: cover;
    border-radius: 6px;
}
</style>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
    <div id="stage">
        <div id="content">
            <table>
                <thead>
                    <tr>
                        <th>Country</th>
                        <th>Year</th>
                        <th>Population</th>
                    </tr>
                </thead>
                <tbody>
                    <tr>
                        <td>India</td>
                        <td>1998</td>
                        <td>85</td>
                    </tr>
                    <tr>
                        <td>USA</td>
                        <td>1999</td>
                        <td>35</td>
                    </tr>
                    <tr>
                        <td>UK</td>
                        <td>2000</td>
                        <td>30</td>
                    </tr>
                </tbody>
            </table>
```

```
        
    </div>
</div>

<div class="controls">
    <button id="moveBtn">Move Right → Left</button>
    <button id="resetBtn">Reset</button>
</div>

<script>
    $(function () {
        const $content = $("#content");
        const $stage = $("#stage");
        const $moveBtn = $("#moveBtn");
        const $resetBtn = $("#resetBtn");
        let moved = false;

        function moveContent() {
            const max = Math.max(0, $content.outerWidth() - $stage.width() +
380);
            $content.css("transform", "translateX(-" + max + "px)");
            moved = true;
        }

        function resetContent() {
            $content.css("transform", "translateX(0)");
            moved = false;
        }

        $moveBtn.on("click", moveContent);
        $resetBtn.on("click", resetContent);

        $(window).on("resize", function () {
            if (moved) moveContent();
        });
    });
</script>
</body>
</html>
```

Output:

Country	Year	Population
India	1998	85
USA	1999	35
UK	2000	30



Move Right → Left    Reset

Country	Year	Population
India	1998	85
USA	1999	35
UK	2000	30



Move Right → Left    Reset

## Question 2

Design a calculator to perform basic arithmetic operations. Use textboxes and buttons to design web page.

Code:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width,initial-scale=1" />
    <title>Q2 – Simple Calculator</title>
    <style>
      body {
        font-family: Arial, Helvetica, sans-serif;
        background: #eef3fb;
        padding: 24px;
      }
      .card {
        width: 380px;
        margin: 30px auto;
        background: #fff;
        padding: 16px;
        box-shadow: 0 6px 18px rgba(0, 0, 0, 0.06);
        border-radius: 6px;
      }
      .row {
```

```
        margin: 8px 0;
    }
    input[type="number"] {
        width: calc(100% - 12px);
        padding: 6px;
    }
    .ops {
        display: flex;
        gap: 8px;
        margin-top: 8px;
    }
    button {
        flex: 1;
        padding: 8px;
    }
    .result {
        margin-top: 12px;
        font-weight: bold;
    }
</style>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
    <div class="card">
        <div class="row">
            <label>Operand A</label>
            <input id="a" type="number" step="any" value="0" />
        </div>
        <div class="row">
            <label>Operand B</label>
            <input id="b" type="number" step="any" value="0" />
        </div>
        <div class="ops">
            <button data-op="+">+</button>
            <button data-op="-">-</button>
            <button data-op="*">*</button>
            <button data-op="/">÷</button>
            <button id="clear">C</button>
        </div>

        <div class="result">Result: <span id="result">0</span></div>
    </div>

    <script>
        $(function () {
            const $a = $("#a");
            const $b = $("#b");
            const $result = $("#result");

            $("button[data-op]").on("click", function () {
                const op = $(this).data("op");
                const av = parseFloat($a.val()) || 0;
                const bv = parseFloat($b.val()) || 0;
                let res = "";
```

```
        switch (op) {
            case "+":
                res = av + bv;
                break;
            case "-":
                res = av - bv;
                break;
            case "*":
                res = av * bv;
                break;
            case "/":
                res = bv === 0 ? "Error (div by 0)" : av / bv;
                break;
        }
        $result.text(res);
    });

    $("#clear").on("click", function () {
        $a.val(0);
        $b.val(0);
        $result.text("0");
    });

    $a.add($b).on("keydown", function (e) {
        if (e.key === "Enter") $('button[data-op="+"]').click();
    });
});
</script>
</body>
</html>
```

**Output:**

Operand A

Operand B

**Result: 0**

Operand A

Operand B

**Result: 268**

---

### Question 3

Create a web page to design a birthday card shown below.

**Code:**

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width,initial-scale=1" />
    <title>Q3 – Birthday Card Designer</title>
    <style>
      body {
        font-family: Arial, Helvetica, sans-serif;
        background: #ffffaf0;
        padding: 24px;
      }
      h1 {
        text-align: center;
      }
      .wrap {
        display: flex;
        gap: 20px;
        max-width: 920px;
        margin: 20px auto;
      }
      .controls {
```

```
        width: 320px;
        padding: 12px;
        background: #fff;
        border-radius: 6px;
        box-shadow: 0 6px 14px rgba(0, 0, 0, 0.06);
    }
    .controls label {
        display: block;
        margin-top: 8px;
    }
    .preview {
        flex: 1;
        display: flex;
        align-items: center;
        justify-content: center;
    }
    .card {
        width: 320px;
        height: 320px;
        border: 6px solid yellow;
        background: yellow;
        display: flex;
        flex-direction: column;
        align-items: center;
        justify-content: center;
        padding: 12px;
        box-sizing: border-box;
    }
    .card img {
        width: 140px;
        height: 100px;
        object-fit: cover;
        margin: 10px 0;
    }
    .cardText {
        font-size: 24px;
        text-align: center;
        color: #111;
    }
    .small {
        font-size: 12px;
        color: #666;
    }
    .btn {
        margin-top: 12px;
        padding: 8px 12px;
    }
</style>
<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
</head>
<body>
    <div class="wrap">
        <div class="controls">
            <label
```



```

    >Choose a background color:
    <select id="bgColor">
      <option value="yellow">Yellow</option>
      <option value="#ffdddd">Pink</option>
      <option value="#e6f7ff">Light Blue</option>
      <option value="#ffffff">White</option>
    </select>
  </label>

  <label
    >Choose a font:
    <select id="fontSelect">
      <option value="Verdana">Verdana</option>
      <option value="Arial">Arial</option>
      <option value="Georgia">Georgia</option>
      <option value="'Courier New'">Courier New</option>
    </select>
  </label>

  <label
    >Specify a numeric font size:
    <input id="fontSize" type="number" value="25" min="8" max="72" />
  </label>

  <label
    >Choose a border style:
    <div class="small">
      <label
        ><input type="radio" name="border" value="none" checked />
        None</label>
      >
      <label
        ><input type="radio" name="border" value="double" />
        Double</label>
      >
      <label
        ><input type="radio" name="border" value="solid" />
        Solid</label>
      >
    </div>
  </label>

  <label
    ><input id="addPic" type="checkbox" /> Add the Default
    Picture</label>
  >

  <label
    >Enter the greeting that follows:
    <textarea id="greeting" rows="3" style="width: 100%">
    Happy Birthday, and many more</textarea>
    >
  </label>

```

```

    <button id="update" class="btn">Update</button>
  </div>

  <div class="preview">
    <div class="card" id="card">
      <div class="cardText" id="cardText">
        Happy Birthday, and many more
      </div>
      
    </div>
  </div>
</div>

<script>
  $(function () {
    const $bg = $("#bgColor"),
      $font = $("#fontSelect"),
      $size = $("#fontSize"),
      $addPic = $("#addPic"),
      $greeting = $("#greeting"),
      $card = $("#card"),
      $cardText = $("#cardText"),
      $cardImg = $("#cardImg"),
      $update = $("#update");

    function applyChanges() {
      $card.css("background", $bg.val());
      $cardText.css("font-family", $font.val());
      $cardText.css("font-size", $size.val() + "px");
      const borderChoice = $('input[name="border"]:checked').val();
      if (borderChoice === "none")
        $card.css({ "border-style": "none", "border-width": "0" });
      else
        $card.css({ "border-style": borderChoice, "border-width": "6px"
    });

    if ($addPic.is(":checked")) $cardImg.show();
    else $cardImg.hide();

    $cardText.text($greeting.val());
  }

  $update.on("click", applyChanges);
  $bg.add($font).add($size).add($addPic).on("change", applyChanges);
  $greeting.on("input", function () {
    $cardText.text($(this).val());
  });

  applyChanges();

```

```
    });
  </script>
</body>
</html>
```

Output:

Choose a background color: Yellow

Choose a font: Verdana

Specify a numeric font size: 25

Choose a border style:

☒ None

☐ Double

☐ Solid

☐ Add the Default Picture

Enter the greeting that follows:

Happy Birthday, and many more

Update

Happy Birthday, and many more

Choose a background color: Pink

Choose a font: Georgia

Specify a numeric font size: 37

Choose a border style:

☐ None

☒ Double

☐ Solid

☒ Add the Default Picture

Enter the greeting that follows:

Happy Birthday, and many more

Update

Happy Birthday,  
and many more

