- **Question 1**

```
<!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">
   <!--Styling the table using CSS-->
   <style>
      table,
      th,
      tr,
      td {
         border-width: 5px;
         background-color: rgb(255, 210, 0);
         text-align: left;
         padding: 10px;
         border: 2px solid black;
         border-collapse: collapse;
         color: black;
         font-size: 20px;
      }
   </style>
   <style>
      table {
         margin: auto;
         outline: black solid 10px;
      }
   </style>
   <title>1. Write an HTML 5 code that will produce the following Display</title>
</head>

<body>
   <div>
      <table class="border">
         <tbody>
            <tr>
               <th><b>Apple iOS</b></th>
               <th><b>iPad</b></th>
               <th><b>iPhone</b></th>
               <th><b>touch</b></th>
            </tr>
            <tr>
               <td><b>Google Android</b></td>
               <td><b>Nexus 7</b></td>
```

```
            <td><b>Samsung Galaxy Notes 8</b></td>
            <td><b>Samsung Galaxy Notes 4</b></td>
            <td><b>HP Slate 7</b></td>
          </tr>
          <tr>
            <td><b>Blackbery OS</b></td>
            <td><b>Blackbery Z10</b></td>
            <td><b>Blackberry Q10</b></td>
          </tr>
          <tr>
            <td><b>Microsoft Windows Phone OS/RT</b></td>
            <td><b>Nokia</b></td>
            <td><b>Samsung ATIV</b></td>
            <td><b>Surface</b></td>
          </tr>
        </tbody>
      </table>
    </div>
</body>

</html>
```

- **Question 2**

```
<!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">
    <style>
        #box {
            border: 2px solid blue;
            padding: 1px;
            margin: 1px;
            width: 300px;
        }

        div {
            padding-top: 0%;
            font-size: 20px;
            text-align: left;
            font-weight: 100;
```

```
            font-family: 'Gill Sans', 'Gill Sans MT', Calibri, 'Trebuchet MS', sans-
serif;
        }

        ol {
            list-style-type: circle;
        }
    </style>
    <title>2. Create a web page that looks like the following display</title>
</head>

<body id="box">
        <div>
            <p style="height: 8px;">1. Apple iOS</p>
            <ol>
                <li>iPad</li>
                <li>iPhone</li>
                <li>iPod touch</li>
            </ol>
            <p style="height: 8px;">2. Google Android</p>
            <ol>
                <li>Nexus 7</li>
                <li>Samsung Galaxy Notes 8</li>
                <li>Samsung Galaxy Notes 4</li>
            </ol>
            <p style="height: 8px;">3. Blackberry OS</p>
            <ol>
                <li>blackberry Z10</li>
                <li>blackberry Q10</li>
                <li>Samsung Galaxy Notes 4</li>
            </ol>
            <p style="height: 8px;">4 Microsoft Window Phone OS/RT</p>
            <ol>
                <li>Nokia</li>
                <li>Samsung ATIV</li>
                <li>Surface</li>
            </ol>
        </div>
</body>
</html>
```

- **Question 3**

```
<!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">
   <link rel="stylesheet" href="https://code.jquery.com/mobile/1.4.5/jquery.mobile-
1.4.5.min.css" />
   <script src="https://code.jquery.com/jquery-1.11.1.min.js"></script>
   <script src="https://code.jquery.com/mobile/1.4.5/jquery.mobile-
1.4.5.min.js"></script>
</head>
<body>
   <div style=>
      <div data-role="page"  style="width: 800px; height: auto;">
         <div data-role=header>
            <div data-role="content">
               <h1 data-role="header" data-theme="b">Converting fluid
measurements</h1>
            </div>
            <fieldset data-role="controlgroup">
               <legend>Enter quantities of gallons:</legend>
               <input type="number" id="gallon" name="number" placeholder="gallons"
/>
            </fieldset>
         </div>
         <div>
            <button data-role="button" data-mini="true"
             data-inline="false" class="ui-btn">Display</button>
         </div>

         <div data-role="footer" data-theme="b">Fluid quantity converter</div>
      </div>
```

```
    </div>
</body>
</html>
```

- **Question 4**

```
<!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">
    <link rel="stylesheet"
href="https://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css" />
    <script src="https://code.jquery.com/jquery-1.11.1.min.js"></script>
    <script src="https://code.jquery.com/mobile/1.4.5/jquery.mobile-
1.4.5.min.js"></script>
    <title>4. Write HTML5 code that will create the following linked
pages</title>
    <style>
        div {
            background-color: lightcyan;
            text-align: center;
            font-size: large;
            height: 450px;
            width: 25%;
            border: 1px solid;
            padding: 5px;
            box-shadow: 5px 10px rgb(0, 183, 255);
        }

        #parent {
            width: 100%;
            height: 10%;
            white-space: nowrap;
            background-color: lightskyblue;
        }

        .child-1 {
            display: inline-table;
            width: 45%;
            height: 50%;
            background-color: lightskyblue;
```

```
            font-weight: bold;
        }

        .child-2 {
            display: inline-block;
            width: 45%;
            height: 50%;
            background-color: lightcyan;
            font-weight: bold;
        }

        h1,
        p,
        ul {
            text-align: left;
        }
    </style>
</head>

<body>
    <div data-role="page">
        <div data-role="content">
            <div id="parent">
                <div class="child-1">Information</div>
                <div class="child-2">Interface</div>
            </div>
            <h1><b>Fluid unit</b><br>conversion</h1>
            <p>There are two primary units for measuring <br>
                volume of fluid</p>
            <ul>
                <li>Imperial system uses unit such as gallon</li>
                <li>Metric system uses unit such as liters</li>
            </ul>
            <p>This app allows you to convert from <br> gallons to liters using the
formula:
                <br> liter=gallon/3.789.
        </div>
    </div>
</body>
</html>
```

- **Question 5**

```
<!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">
<!--Drawing a cylinder function using JavaScript-->
<script>
   function cylinder_drawing() {
      var canvas = document.getElementById('canvasid');
      var context_variable = canvas.getContext('2d');
      var centX = 0;
      var centY = -100;
      var r_variable = 30;
      context_variable.save();

      context_variable.translate(canvas.width / 2, canvas.height / 2);
      context_variable.scale(6, 1);
      context_variable.beginPath();
      context_variable.arc(centX, centY, r_variable, 0, 2 * Math.PI, false);
      context_variable.restore();

      context_variable.fillStyle = 'YellowGreen';
      context_variable.fill();
      context_variable.lineWidth = 7;
      context_variable.strokeStyle = 'GainsBoro';
      context_variable.stroke();
      context_variable.save();

      context_variable.translate(canvas.width / 2, canvas.height / 2);
      context_variable.scale(6, 1);
      context_variable.beginPath();
      context_variable.arc(centX, 100, r_variable, 0, 2 * Math.PI, false);
      context_variable.restore();
      context_variable.fillStyle = 'MediumSlateBlue';
      context_variable.fill();
      context_variable.lineWidth = 7;
      context_variable.strokeStyle = 'GainsBoro';
      context_variable.stroke();
      context_variable.save();

      context_variable.beginPath();
      context_variable.lineWidth = 3;
      context_variable.strokeStyle = "rgba(0,0,0)";
      context_variable.moveTo(80, 100);
      context_variable.lineTo(80, 320);
      context_variable.moveTo(420, 95);
      context_variable.lineTo(420, 325);
      context_variable.stroke();
```

```
            context_variable.translate(canvas.width / 2, canvas.height / 2);
            context_variable.scale(6, 1);
            context_variable.beginPath();
            context_variable.arc(centX, centY + 2, r_variable + 0.8, 0, Math.PI,
false);
            context_variable.restore();
            context_variable.lineWidth = 4;
            context_variable.strokeStyle = "rgba(0,0,0)";
            context_variable.stroke();
            context_variable.save();

            context_variable.translate(canvas.width / 2, canvas.height / 2);
            context_variable.scale(6, 1);
            context_variable.beginPath();
            context_variable.arc(centX, 100 + 2, r_variable + 0.8, 0, Math.PI,
false);
            context_variable.restore();
            context_variable.lineWidth = 4;
            context_variable.strokeStyle = "rgba(0,0,0)"
            context_variable.stroke();
        }
    </script>
    <title>5.1 Draw the following figure of a cylinder on a canvas</title>
</head>

<body onload="cylinder_drawing()">
    <canvas id="canvasid" height="400" width="500" />
</body>
</html>
```

External Resource:

- W3C - https://www.w3schools.com/
- CDN links - https://jquerymobile.com/download/