

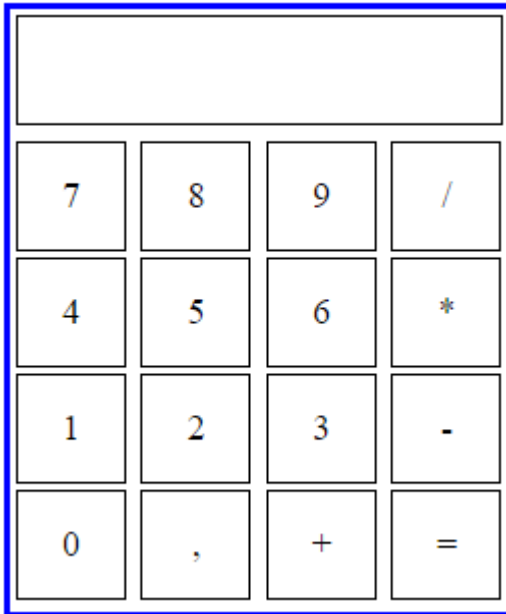
Javascript 2: Exercises

Set up a html page and link a javascript file to it with the script tag. Now implement the following in the javascript file:

Manipulate the DOM

1. Change the appearance of your divs
 - a. Put 3 div tags in your HTML
 - b. Select them in your js file by using `document.getElementsByTagName()`
 - c. Give the divs a new background color.
2. Create an array of person objects - each object having: first name, last name, phone and email
 - a. Loop the array and write content to an html table
 - b. Each iteration will create a new `<tr>` and `<td>` for each property in the person objects
3. Create 3 divs in html with height and width being 100px and different background colors
 - a. Make each of the 3 divs write a different message to the console when it is clicked
4. Create 3 divs in html with height and width being 200px and different border color
 - a. Make each div show a different text message inside whenever the mouse is over the div.
 - b. Make the message disappear when the mouse moves away from the div.
5. Create an html form with all the different components: text input fields, radio buttons, check boxes etc.
 - a. When the user submits the form write the content to the `console.log`
 - b. Write the content to an html table.
6. Create an html page with a `` element (unordered list).
 - a. Create 10 list items inside – each containing the name of a person
 - b. Give the list item a different background color depending on if it is an even or odd number in the list.
 - c. Make each list item clickable so that by clicking a name we get a greeting to that name in the console.
 - d. Make it so that when hovering over a list item – the text in the line becomes twice as tall.

7. Create a calculator with div tags of different size like the image below.
- With javascript make the buttons clickable
 - When a button is clicked the value should be appended to the display div (at the top)
 - When the equal sign is clicked the result of the calculation should be displayed.



```
<style>
/*    #test {
        border: 2px solid black;
    }*/
#container{
    width: 226px;
    height: 274px;
    border: 3px solid blue;
    margin: auto
}
.t1, .t4{
    border: 1px solid black;
    height: 48px;
    margin-left: 3px;
    margin-top: 3px;
    display: inline-block;
    text-align: center;
    line-height: 48px;
}
.t1{
    width: 48px;
}
.t4{
    width: 219px;
}
</style>
```

```
<div id="container">
    <div id="display" class="t4"></div>

    <div id="seven" class="t1">7</div>
    <div id="eight" class="t1">8</div>
    <div id="nine" class="t1">9</div>
    <div id="divide" class="t1">/</div>

    <div id="four" class="t1">4</div>
    <div id="five" class="t1">5</div>
    <div id="six" class="t1">6</div>
    <div id="multiply" class="t1">*</div>

    <div id="one" class="t1">1</div>
    <div id="two" class="t1">2</div>
    <div id="three" class="t1">3</div>
    <div id="minus" class="t1">-</div>

    <div id="zero" class="t1">0</div>
    <div id="comma" class="t1">,</div>
    <div id="plus" class="t1">+</div>
    <div id="equal" class="t1">=</div>

</div>
```