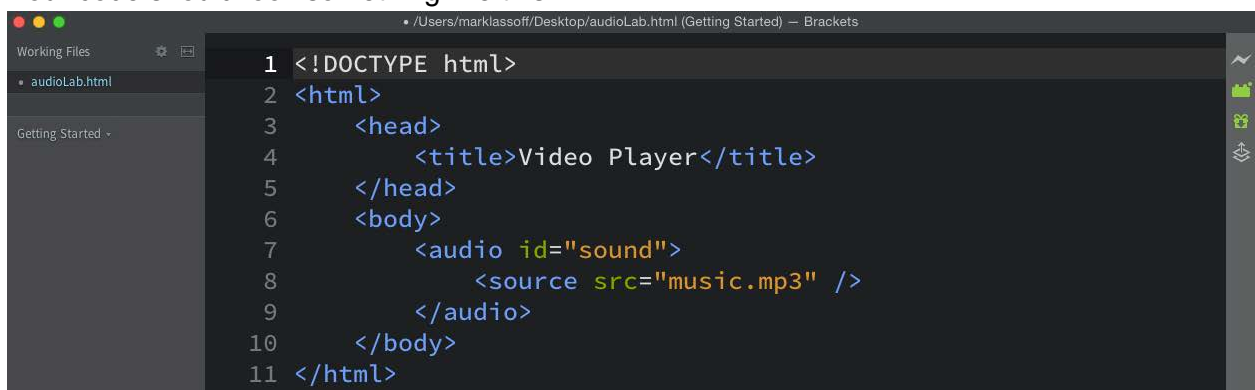**Activity 4.6:** Simple Mp3 Player

Now that you're getting used to working with code, we're going to introduce some Javascript to make our MP3 player more interactive. You're likely not going to understand any of the Javascript at first— but this will get you used to working with it and including it in your HTML. Lots of production level (released) HTML code has Javascript integrated in it, so it's a good idea to be able to work around it.

1. Open your text editor and create your basic document structure. In the body, add a video element with the id sound. You'll leave out the controls attribute but still add the source element. Use the value of the source element to place the name of any MP3 you want to play. Make sure you move that mp3 into the same folder (or desktop) as the HTML file.

   Your code should look something like this:

```
                            • /Users/marklassoff/Desktop/audioLab.html (Getting Started) — Brackets
Working Files
• audioLab.html      1  <!DOCTYPE html>
                     2  <html>
Getting Started ▾    3      <head>
                     4          <title>Video Player</title>
                     5      </head>
                     6      <body>
                     7          <audio id="sound">
                     8              <source src="music.mp3" />
                     9          </audio>
                    10      </body>
                    11  </html>
```
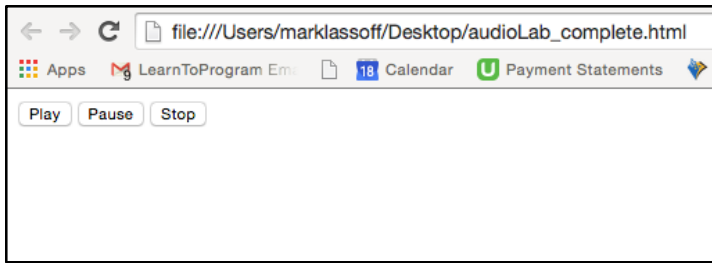
2. Without the controls there is no way to start playing the music, so we're going to add them ourselves using Javascript. Let's next add three buttons to the user interface. These buttons will go below the audio element. Here's the code:

```
<button id="btnPlay">Play</button>
<button id="btnPause">Pause</button>
<button id="btnStop">Stop</button>
```

3. Load the HTML into your browser. The audio won't play, but you'll get to see the buttons.

4. You'll notice that each button has an id attribute. That's how we'll identify the buttons to the Javascript. We're going to put the Javascript in the document <head> inside a <script> element. Type the Javascript as carefully as you can. Sometimes, a single errant character will prevent everything from working correctly.

    Don't type the line numbers— They're there to help you keep track of where you are.

```
1.  <script>
2.              var player;
3.
4.            window.onload=function()
5.            {
6.                  player = document.getElementById("sound");
7.                  document.getElementById("btnPlay").addEventListener("click",
    playMusic, false);
8.                  document.getElementById("btnPause").addEventListener("click",
    pauseMusic, false);
9.                  document.getElementById("btnStop").addEventListener("click",
    stopMusic, false);
10.           }
11.
12.           function playMusic()
13.           {
14.                 player.play();
15.           }
16.
17.           function pauseMusic()
18.           {
19.                 player.pause();
20.           }
21.
22.           function stopMusic()
23.           {
24.
25.                 player.pause();
26.                 player.currentTime=0;
27.           }
28.        </script>
```

```html
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <title>Video Player</title>
5          <script>
6              var player;
7
8              window.onload=function()
9              {
10                 player = document.getElementById("sound");
11                 document.getElementById("btnPlay").addEventListener("click", playMusic, false);
12                 document.getElementById("btnPause").addEventListener("click", pauseMusic, false);
13                 document.getElementById("btnStop").addEventListener("click", stopMusic, false);
14             }
15
16             function playMusic()
17             {
18                 player.play();
19             }
20
21             function pauseMusic()
22             {
23                 player.pause();
24             }
25
26             function stopMusic()
27             {
28
29                 player.pause();
30                 player.currentTime=0;
31             }
32         </script>
33     </head>
34     <body>
35         <audio id="sound">
36             <source src="music.mp3" />
37         </audio>
38         <button id="btnPlay">Play</button>
39         <button id="btnPause">Pause</button>
40         <button id="btnStop">Stop</button>
41     </body>
42 </html>
```

Line 34, Column 11 — 42 Lines   INS   HTML ▾   ●   Spaces: 4

Full Code listing in the text editor.

5. Open your HTML in the web browser (or refresh the page if you still have it open). Click the Play button. If music plays, congratulations! Test the Stop and Pause buttons. If anything doesn't work as expected, go back and check your code against the code listing in this document. (Also make sure your volume is turned up— You'd be surprised how often that's the culprit!)

6. Fix any "bugs" that you find. Keep going until all three buttons work as expected. Good luck!