What is your astrological sign? What does it say about you?

Goals

Goal 1: You will know how to add html elements using javascript.

Vocabulary

Document Object Model

DOM

Element

Append

Parent

Child

Code

document.createElement()
document.body.appendChild()

element.textContent

element.appendChild()

- 1. Mr. Collins on Numbers (Check HW)
- 2. For Loop Snippets (Computers Closed)
- 3. Go over H28
- 4. Lesson on the DOM
- 5. Tripod Results and Survey
- 6. Homework is H29

Goal 1: You will know how to add html elements using javascript.

basicStructure.html

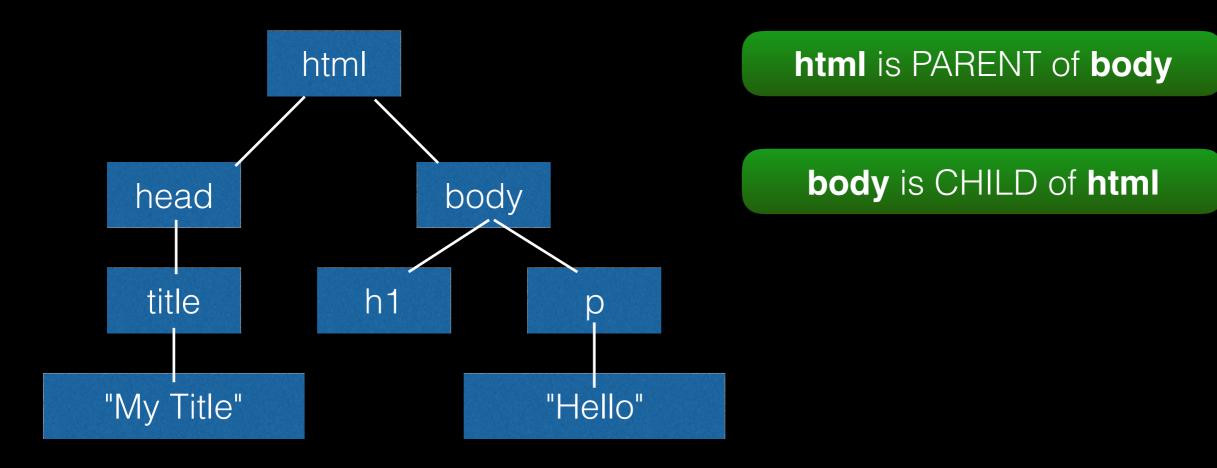
```
<!doctype html>
<html>
<head>
   <title>My Title</title>
</head>
<body>
   <h1>This is a header</h1>
   This is a paragraph
  <script>
   // My javascript code goes here
   </script>
</body>
</html>
```

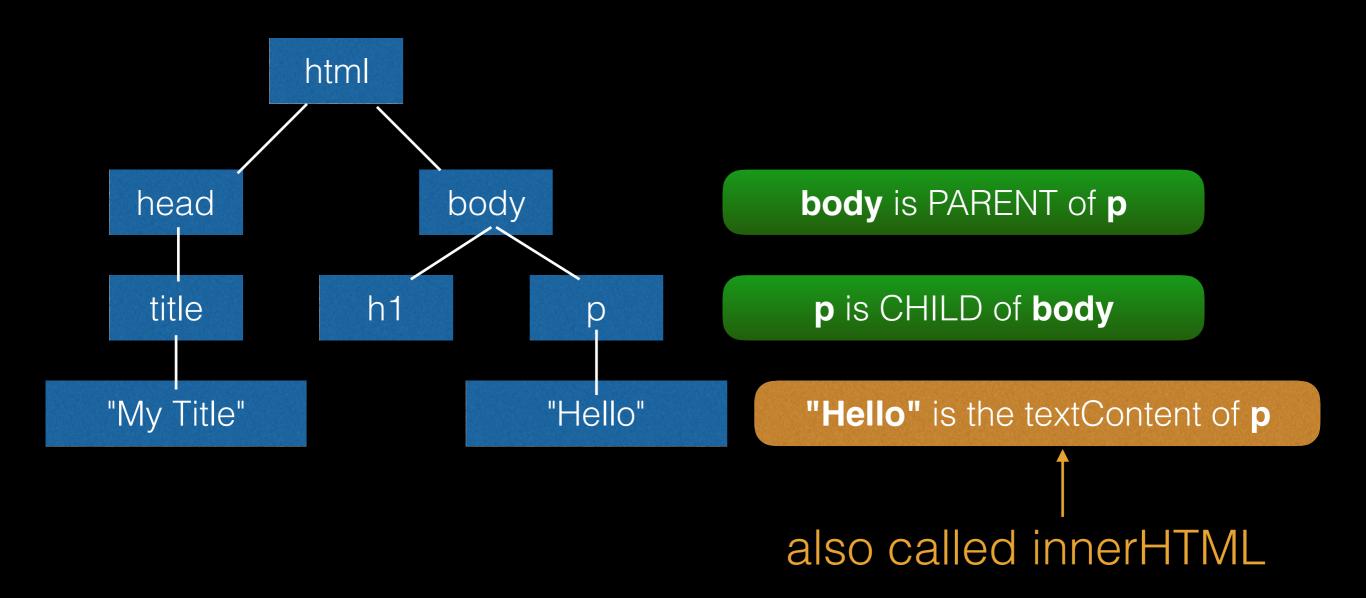
basicStructure.html

```
<!doctype html>
                   html
<html>
          head
<head>
                                       "My Title"
                              title
   <title>My Title</title>
</head>
          body
<body>
   <h1>This is a header</h1>
                                 h1
                            "Hello"
   Hello
                    p
   <script>
   // My javascript code goes here
   </script>
</body>
</html>
```

basicStructure.html

```
<!doctype html>
                                               html
<html>
<head>
                                                       body
                                      head
   <title>My Title</title>
</head>
                                       title
                                                   h1
<body>
   <h1>This is a header</h1>
                                     "My Title"
                                                            "Hello"
   Hello
   <script>
                                                 Document Object
   // My javascript code goes here
   </script>
                                                   Model
(DOM)
</body>
</html>
```





In order to add **p** with text to webpage (html), you need to CREATE and APPEND each element

CREATE

```
p is CHILD of body

var myP = document.createElement("p");

"Hello" is CHILD of p

myP.textContent = "Hello";

APPEND

document.body.appendChild(myP);
```

Demo

In order to add **p** with text to webpage (html), you need to CREATE and APPEND each element

CREATE

```
p is CHILD of body

var myP = document.createElement("p");

"Hello" is CHILD of p

myP.textContent = "Hello";

APPEND

document.body.appendChild(para);
```

```
<html>
<head>
</head>
<body>
  <script>
     var para = document.createElement("p");
     para.textContent = "Hello";
     document.body.appendChild(para);
  </script>
</body>
</html>
```

Replaces alert();

- Try adding the following to a blank web page:
 - •
 - <h1>

Practice!

Modify AddingNumbers to display the final answer on the webpage.

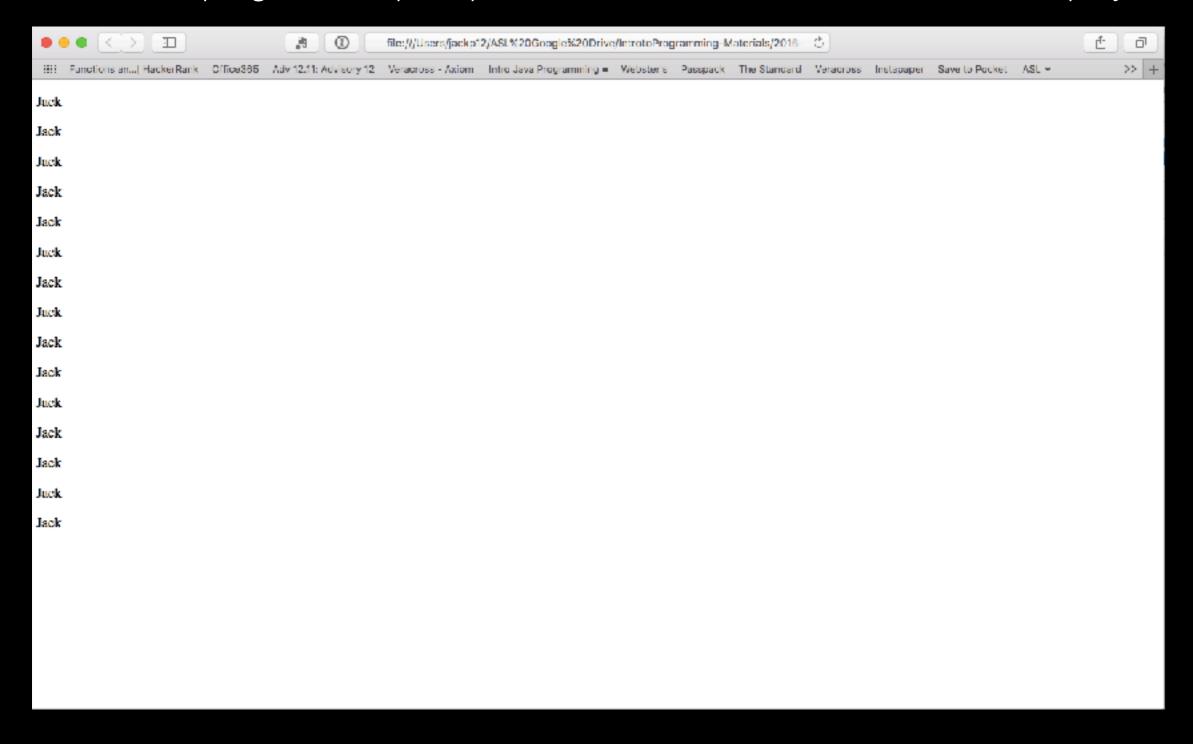
Practice!

 Write a program that prompts the user for three numbers and then displays the largest number.

```
Introduction to Programming
Class 16, 27 February 2017
                        largeNumber.html
                 <!doctype html>
                 <html>
                 <head>
                     <title>Largest Number</title>
                 </head>
                 <body>
                    <script src="largeNumber.js"></script>
                 </body>
                 </html>
                         largeNumber.js
var maxNum = -100000000;
for (var i=0; i<3; i++) {
   var userNumberStr = prompt("Please enter a number.");
   userNumber = parseInt(userNumberStr);
   if (userNumber > maxNum) {
      maxNum = userNumber;
var message = "The largest number is " + maxNum;
var para = document.createElement("p");
para.textContent = message;
document.body.appendChild(para);
```

Practice!

Write a program that prompts for a name and number of times to display.



```
Introduction to Programming Class 16, 27 February 2017
```

vanity.html

vanity.js

```
var name = prompt("What's your name?");
var timesStr = prompt("How many times would you like to see it?");
times = parseInt(timesStr);

for (var i=0; i<times; i++) {
   var para = document.createElement("p");
   para.textContent = name;
   document.body.appendChild(para);
}</pre>
```

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