'Loading an XML file'

Your Second Homework Assignment for COIN 71

Due: **5:00 pm,** Monday, 23 April

Objectives: Use ContentLoader to send a request to and handle response from the "server"
Parse an XML file using DOM API

Material From: ContentLoader is on page 74 of Crane and Pascarello
A slightly better version of ContentLoader.js is downloadable from Etudes NG
The data file in XML format, ctis_courses.xml, is downloadable from Etudes NG

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Create a web page that allows the user to browse Foothill's CTIS course offerings. This page will show course descriptions for many courses in each of three departments in CTIS. Each department has a list of courses and each course has a short description.

The user will start by selecting the department from one drop down list. Once the user has chosen a department, your page will update a second drop down list to make it contain only course numbers for courses in that department. When the user chooses a course number, your page will show the description for that course.

The data file will reside on your local drive, and not on a web server. You must use ContentLoader from the textbook to request the data. Because all of this functionality must be implemented in JavaScript, the body of your html page will contain only the following:

```
<body>
 <div id = "browseCatalog">

        <select id = "selectDepartment">
        <option> </option>
        </select>

        <select id = "selectCourse">
        <option> </option>
        </select>

        <p id = "courseDescription">
        Choose a department and a course number to view a course description
        </p>

 </div>
</body>
```

Steps:

1. Before you start coding, make sure you understand the file ctis_courses.xml, and that you know exactly how your completed web page will function.

2. Write the JavaScript that builds the web page by creating DOM elements, assigning event handlers, and testing one element at a time.

3. Thoroughly test your page, and review it to make sure that it follows the Program Guidelines for this course, and that it meets the requirements for this assignment.

4. Upload your pages to the Krypton webserver and test it from there. In the Assignments tool in etudes, paste a link to your html document and submit.
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Hint:

You may find the following JavaScript function useful in your solution

```
// Looks through an xml "tree" to find a node with a "tagname" and
// a particular "attribute" / "value" pair. Returns the node if found
// and returns null if no such node is found.
function findNode (tree, tagName, attribute, value)
{    var targetNode = null;
     var nodeArray = tree.getElementsByTagName(tagName);
     // find the first node in nodeArray with attribute == value
     for (i = 0; i < nodeArray.length && targetNode==null; ++i)
     {    if (nodeArray[i].getAttribute(attribute) == value)
          {    targetNode = nodeArray[i];
          }
     }
     return targetNode;
}
```