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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<!--
Author: Elaine Haight
Class/Section: COIN 71 Ajax
Date Modified: 16 Dec 2009
filename: optionArray.html
Demonstrates the options array in a select node in the DOM
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<html xmlns="http://www.w3.org/1999/xhtml">

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<head>

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    <title>Practice with a pull down menu</title>

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    <meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />

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    <script type = 'text/javascript'>

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//creates a new element node, appends it to parent.
// if text != "", creates a text node with text in it and appends it to element.
//sets the name and id attributes to nameId.
//adapted From page 48 of Crane and Pescarello.
function addNode(parent, element, nameId, text)
{
    var childEl = document.createElement(element);
    parent.appendChild(childEl);
    if (text != "")
    {
        textNode = document.createTextNode(text);
        childEl.appendChild(textNode);
    }
    childEl.setAttribute("id", nameId);
    childEl.setAttribute("name", nameId);
    return childEl;
}

/* puts 'data' onto the page under the div with the id ='console' */
function toConsole(data)
{
    var console = document.getElementById('console');
    if (console!=null)
    {
        var newline = document.createElement("div");
        console.appendChild(newline);
        var txt = document.createTextNode(data);
        newline.appendChild(txt);
    }
}

/* puts the value of the currently selected option, and its index, into the console */
function reportValue()
{
    var selectNode = document.getElementById("selectWeather");
    toConsole("Currently selected is: " + selectNode.value + ", and its index is: " +
selectNode.selectedIndex);
    // interesting that selectNode.getAttribute("value") doesn't work here
}

/* makes a new pull down menu under parentNode, by making a new select node with id
"selectWeather" */
function makePullDown(parentNode)
{
    var pNode = addNode(parentNode, "p", "pullDown", "What is the weather? ");
    var selectNode = addNode(pNode, "select", "selectWeather","");
    selectNode.setAttribute("onchange", "reportValue()");

    addNode (selectNode, "option", "rainOption", "rain");
    addNode (selectNode, "option", "snowOption", "snow");
    addNode (selectNode, "option", "sunOption", "sun");
}

/* Demonstrates the ways to access the options inside the pull down menu */
function accessMenu()
{
    var selectNode = document.getElementById("selectWeather");
    toConsole (selectNode.options.length + " options in the menu");
    message = "Here are the options: ";
    for (i = 0; i < selectNode.options.length; i ++)

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        message+= selectNode.options[i].firstChild.data + " ";
        toConsole( message);
    }
window.onload=function()
{
    var console = document.getElementById("console");
    makePullDown(console);
    accessMenu();
}

</script>
</head>

<body>
<div id = "console"></div>
</body>

</html>
```