Announcements

- Make sure your scores are correct in grades.cs.umd.edu
Object

- In JavaScript an object is a composite type which aggregates several properties and functions (methods)
- Property – Entity with a name and a value
- Object properties work like variables and fundamentally are variables. You can assign values to them and read values from them
- A property value can be any data type we have seen, including objects
- We access object properties and methods using a period (e.g., window.prompt)
JavaScript Window Object

- Represents the window displaying the document (either the web browser window or a frame within a window)

Some Window Object Properties
- status – read/write string representing browser’s status line
- location - location object for the window (or frame). It represents the URL of the loaded document
- closed – represents whether the window has been closed
- document – read-only value representing the document object that describes the document associated with the window (or frame)
- history – read-only reference to object that represents the browsing history

Example: WindowObjectI.html

Some Window Object methods
- alert – displays a message in a dialog box
- prompt – to input string through dialog box
- confirm – yes-or-no question
- open – creates a new window
- print – equivalent to clicking on the “Print” button

Example: WindowObjectII.html
JavaScript Document Object

- This object represents the HTML document displayed in the window
- Some Document Object Properties
  - title
  - lastModified
  - URL
  - forms[] – array of form objects present in the document
  - images[] – array of Image objects present in the document and associated with the <img> tag
- **Example:** DocumentObject.html
- Some Document Object methods
  - writeln
  - Several methods to deal with Events
    - getElementById(Id) – returns element with the specified id or null (element does not exist)
    - getElement
- It is through the document object that we will be able to access/modify an html document
- The way the document content is accessed/modified is referred to as the Document Object Model (DOM)
- Several DOMs 😊
  - W3C DOM
  - IE4 DOM
Forms

- Forms - means by which information passes from the user to a server
- For now we will use them to read values to be processed by our JavaScript programs
- Tags
  - `<form>` - defines the form. It has two attributes
    - action – indicates where the form contents will be sent when the form is submitted
    - method – defines how the contents will be sent
      - post – contents sent using the HTTP POST method. Content is “hidden”
      - get – contents sent using the HTTP GET method. Contents included in the URL
  - `<input>` - appears inside of the `<form>` tag and defines several input data alternatives. The general format is: `<input type="ALTERNATIVE" />` where ALTERNATIVE can be text, password, checkbox, radio, file, submit, image, button, reset, hidden