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Advanced Javascript Unit-1 review.

* Run time scripts
  + Processed by the browser where they are located
  + Any effects or content are displayed at the point the script is located within the page
* Functions
  + Self contained pieces of code or scripts
  + Must be defined with the function keyword
  + Can be called by a run time script
  + Can be called by an event handler
  + Can be called multiple times during the life of the page
  + Can return results back to the page
* Event Handlers
* "Listen" for user activity
* Connect your HTML to Javascript
* Usually used to call functions but can run any contained Javascript code
* General event handlers work everywhere
* Some event handlers are specific to certain elements
* You may attach multiple event handlers to an element
* If statements
  + Unary or single branch if statement.  True branch is ALWAYS required

if ( ***condition*** )

{ this code processed if the condition is true  }

* + Binary or double branch if statement

if ( **condition** )

{ this code processed if the condition is true  }

else

{  this code processed if the condition is false  }

* + Nested if statement.
  + Additional if statements may be placed within either or both branches of an if statement

if   ( **condition** )

{ this code processed if the condition is true

if ( **condition** )

{ this code processed if both if conditions are true }

else

{ this code process if the first if condition is true and the second is false }

 }

else

{ this code processed if the condition is false }

* Switch statement
  + Used when your condition has multiple values.
  + A more concise way to display an if statement with multiple blocks of code
  + Can be used in place of nested if…else statements
  + Review Switch statement syntax
* Loops
  + for loop
    - Works best when you know how many times you are going to do something.  "Loop 5 times"
    - Counter controlled loop
    - Pre-test loop
    - Pre-defined format    for(*initialize; check end condition; update* ) { *body of the loop* }
    - Same format as in most other programming languages, including PHP.
    - Use it whenever you can!
  + while loop
    - * Works best when you are going to process until some condition occurs.  "Loop until all the records have been processed"
      * Pre-test loop
      * Requires a loop control variable/sentinel

Loops are often defined by their function.

* .getElementById( )
  + The getElementById() method returns the element that has the ID attribute with the specified value.
* .innerHTML
  + The innerHTML property sets or returns the HTML content (inner HTML) of an element.
* arrays
  + An array is a special variable, which can hold more than one value at a time.
  + index
  + storage arrays
  + accumulator arrays
  + lookup arrays