

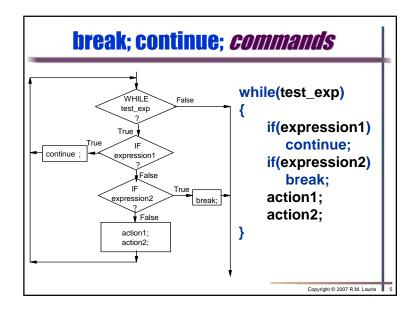
```
. Property access of an object
Defines order of operation
Minus, Increment, Decrement
Logical NOT Operator
Multiply, Division, Remainder
Addition, Subtraction

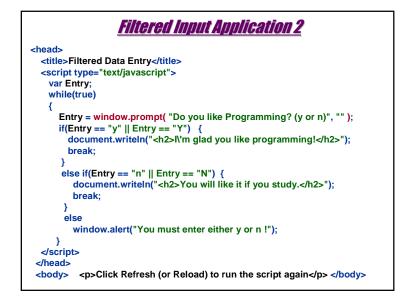
< <= > >= !=

&&
    Logical AND Operator
Logical OR Operator
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3
```

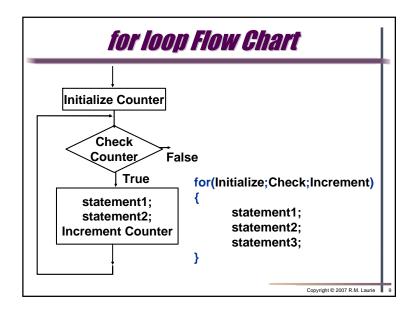
CS227: Slide Set 6: More JavaScript Operators and Control Stuctures





```
do - while Structure
*A loop structure that guarantees the loop
  body is executed once.
Condition is tested at bottom of loop
Don't forget the semicolon for while(...);
      Initialize Counter
                       Initialize Counter;
                        do
       statement1;
                             statement1;
       statement2:
     Increment Counter
                             statement2:
                             Increment Counter:
         Check
                       }while(Check Counter);
        Counter
 True
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```

```
chead>
<ititle>Filtered Data Entry</title>
<script type="text/javascript">
    var Entry;
    do
    {
        Entry = window.prompt( "Do you like Programming?", "y or n" );
    } while(!(Entry=="y" || Entry=="Y" || Entry=="n" || Entry=="N"));
    if( Entry == "y" || Entry == "Y" )
        document.writeln("<h2>|I'm glad you like programming!</h2>");
    else
        document.writeln("<h2>You will like it if you study.</h2>");
    </script>
    </head>
    <body>
        Click Refresh (or Reload) to run the script again
    </body>
</body>
```



```
for Loop Example
<head>
 <title>Average Calculation 2</title>
 <script type = "text/javascript">
  var Score = 0, ScoreTotal = 0, Count = 0;
  for(Count = 1; Count <= 5; Count++)
   Score = parseInt(window.prompt("Enter Score",""));
   ScoreTotal = ScoreTotal + Score;
   document.writeln("Score " + Count + " = " + Score + "<br/>");
  document.writeln("<h2>The Average Score = "
       + ScoreTotal / 5 + "</h2>");
 </script>
 </head>
 <body>
 Click Refresh (or Reload) to run the script again
                                                      Copyright © 2007 R.M. Laurie
```

```
XHTML: Tables
*Tables display information in tabular form
 ♦  Table start and end

♦   Table header element

 ♦ Table data element
             ltemPrice
             Price
    Item
         $4.39
  Soy Milk
               Soy Milk$4.39
             Frosted Flakes $3.89
              Frosted Flakes$3.89
             Copyright © 2007 R.M. Laurie
```

```
Nested for Example
<title>Subtraction Table</title>
<script type = "text/javascript">
  document.writeln("<h3>Subtraction Table (X-Y)<Vh3>"
    + ""
    + "Y\\X<\/th>")
                                      Subtraction Table (X-Y)
  for(var i = 0; i \le 3; i++)
     document.write( "" + i + "<\th>");
                                      YX 0 1 2 3
  document.writeln("");
  for(i = 0; i \le 2; i++)
                                       0 0 1 2 3
                                       1 -1 0 1 2
    document.write("" + i + "");
    for(var j = 0; j \le 3; j++)
                                       2 -2 -1 0 1
      document.write( " + (j - i) + "");
    document.writeln("");
   document.writeln("");
```

```
*A selection structure that can be used to select one of many branches

switch (Grade)
{
    case "P": case "p":
        window.alert("You Passed");
        break;
    case "F": case "f":
        window.alert("You Failed");
        break;
    default:
        window.alert("Incorrect letter Grade.");
}
```

```
*Create a program to display a multiplication table for two entered values designated by columns and rows
*For example if you enter 10 columns and 5 rows the following table would be generated Multiplication Table (Row x Col)

CR 1 2 3 4 5 6 7 8 9 10
1 1 2 3 4 5 6 7 8 9 10
2 2 4 6 8 10 12 14 16 18 20
3 3 6 9 12 15 18 21 24 27 30
4 4 8 12 16 20 24 28 32 36 40
5 5 10 15 20 25 30 35 40 45 50

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```

```
<head> <title>Filtered Data Entry</title><script type="text/javascript">
  var Entry, Count = 0;
   Entry = window.prompt( "Enter the letter Grade or Q=Quit", "A B C D F Q");
    case "A": case "a":
      window.alert("Excellent work");
    case "B": case "b":
     window.alert("Good work");
    case "C": case "c":
      window.alert("Average work");
    case "D": case "d":
    case "F": case "f":
      window.alert("Poor work");
     break:
    case "Q": case "q":
    default:
              // catch all other characters
      window.alert("Incorrect letter Grade.");
  ) while ( Entry !="Q" && Entry != "q");
  window.alert("Quit"); </script> </head> <body>Click Refresh to repeat </body>
```