

ANNOUNCEMENTS

- ❖ No posting of code in the forum.
- ❖ You must implement programming projects by yourself.

JAVASCRIPT (LOGICAL OPERATORS)

- ❖ Used with comparison operators to create more complex expressions.
- ❖ Operators
 - ❖ Logical and (&&) – `expr1 && expr2`
 - ❖ Expression is true if and only if both expressions are true otherwise is false.
 - ❖ **Example:** LogicalOp1.html
 - ❖ Logical or (||) – `expr1 || expr2`
 - ❖ Expression is false if and only if both expressions are false otherwise is true.
 - ❖ **Example:** LogicalOp2.html
 - ❖ Logical Not (!) – `!expr`
 - ❖ Inverts the boolean value of the expression.

PRECEDENCE/ASSOCIATIVITY

- ❖ Remember you can use parenthesis to impose a particular order for the evaluation of an expression.

CASCADED IF STATEMENT IDIOM

- ❖ You can combine if statements to handle different cases.
- ❖ This approach to organize if statements to handle different cases is called the *Cascaded If* Statement.
- ❖ Cascaded If statement general form:

```
If (expr1)
    // Statement is executed if expr1 is true
else if (expr2)
    // Statement is executed if expr2 is true
else if (expr3)
    // Statement is executed if expr3 is true
else
    // If none of the above expressions is true
```

- ❖ Notice it is not a JavaScript statement.
- ❖ Once one of the cases is executed no other case will be executed.
- ❖ You can use { } to enclose more than one statement.
- ❖ **Example:** See CascadedIf.html

WHILE STATEMENT

- ❖ **while statement** – Control statement which allows JavaScript to repeat a set of statements.
- ❖ **Basic Form**
while (expression)
statement // executed as long as expression is true
- ❖ If you want to execute more than one statement then use a set of { } to enclose the statements.
- ❖ You can have other types of statements (including whiles) in a while.
- ❖ **Example:** SqrtTable.html

TRACE TABLES

- ❖ Mechanism to keep track of values in a program.
- ❖ Allows you to understand the program behavior.
- ❖ We could create a trace table for SqrtTable.html