Lesson 04 – Notes

**Flow Charts, Boolean Values, Comparison Operators, Boolean Operators**:

Flow Charts: has a start and an end point with various ways to go through the chart

Flow Control Statements: instructions that decide which instructions to execute under which conditions

* \*\*\*Before learning about flow control statements – must first learn the yes no options and how to write them

Boolean (Data Types) Values: True or False – with capital ‘T’ and ‘F’

Comparison Operators: == != > < >= <=

* Expressions w/ comparison operators result down to a boolean value

Boolean Operators: And, Or, & Not - always operate on the 2 Boolean values

* Has an order of operations just like the mathematical operators
* Evaluates the NOT first, then the AND, then the OR

AND Operator’s Truth Table:

* True & True = True
* True & False, False & True, False & False = False

OR Operator’s Truth Table:

* True or True = True
* True or False, False or True, False or False = False

NOT Operator’s Truth Table:

* Not True = False
* Not False = True

Flow Control Elements:

* Flow control statements often start with a part called the **Condition**
* And are all followed by a block of code called the **Clause**