Chapter 5

Duty: A proposition (Boolean expression) a statement that can be evaluated as a true or false

Ex. ‘today is Wednesday’ false

* 6 < 9 true
* 7 < 3 false

Comparison operators in Java:

* < less than
* > greater than
* <= less than or equal to
* >= greater than or equal to
* == equal to
* != not equal to

Notice

* = is assignment operator
* == compare for equality

If statement

* if(condition) { 🡸 boolean expression

statement

statement

…………………

}

Ex. Conditional1.pde

* if/ else statements
* check his posted notes for 10/16/14

If either truth or false braces consist of one statement then { } are optional

* can also write
  + if(cond) statement;
  + else state;
* also
  + if (cond) stat;
  + else state;

Multiple Conditions

if(cond) {

……..

}

else{

if(cond){

……….

}

else{

if(cond){

}

}

}

Alternative

Ex. Conditional2.pde conditional4.pde

Logical operators

* let p, q be prepositions
* and &&
* or ||
* not !

Ex

int x = 6, y = 10;

println(x<8 && y<8); // false

println(x<8 || y<8); // true

println( !(x<8)); //false