Notes – 10/2/15

Syntax (or Form)

If (booleanExpression)  
{  
 //Block of Code

}

Semantics (or Meaning)  
 if the Boolean expression evaluates to true, then execute the code inside the Block. Otherwise if the expression evaluates to false, do not execute the code inside the Block, but continue executing the code after the closing }.

Boolean Expression

Anything that evaluates to either true or false  
For primitive types:  
 X == 5  
 x >= 5  
 x > 5  
 x <= 5  
 x != 5 (not equal to)

You can also use == for Objects  
References like String.  
  
“Jeff” == “Will” (check for Object equality

“Jeff”.equals(“Will”) (checks if the two strings have the same sequence of characters

Combine results:  
if((x<5) && (y>10))  
{  
  
}

&& is logical “and”  
|| is logical “or”  
  
if((x<5) || (y>10))  
{  
  
}

if(x != 5)  
{  
  
}  
  
or  
  
if(! (x==5))  
{  
  
}

if(x == 5)  
{  
 //Do something  
}  
else  
{  
 //Do something  
}

if( x==5)  
{  
  
}  
else if (x == 6)  
{  
  
}  
else if (x == 7)  
{  
  
}  
else   
{  
  
}