

# Java vocab and syntax cheat sheet.

LinearFunction.java

class name

public class LinearFunction ← class header

start of  
class scope

public static void main(String[] args) ← main method header

Main method  
scope

{  
    printInfo(3, 7); ← method call. Calls method below.  
                    parameter values  
                    results are stored in xInt.  
    double xInt = getXInt(3, 7); ← method call. Note getXInt returns a double!  
                    declaration of xInt  
    System.out.println("The x-intercept is: " + xInt);  
                    method call. Prints to console.  
}

return type is void.  
⇒ No return value!

public static void printInfo(double m, double b) ← printInfo method header  
                    Parameter declaration.  
                    This method takes in 2 doubles.

scope of  
printInfo

{  
    System.out.println("The slope is " + m + " and the y-intercept is " + b + ".");  
}

println method  
call.

return type is double.

Parameter declarations

public static double getXInt(double m, double b)  
                    ← getXInt will take in 2 doubles

scope of  
getXInt  
method

{  
    double ans = -b/m; ← storing a calculation as a variable  
    return ans; ← return statement! This is the value returned by the getXInt method.  
    //return -b/m; //This is equivalent to the two lines above.  
    ↑  
    comment! Ignored by the compiler.  
}

End of class scope.