**Writing to a File**

Reference: Gaddis 4.10

**Requirements**

* Import:
* Create File and PrintWriter objects:
* Use the PrintWriter object to output to the file:
* After you’ve written EVERYTHING to the file, close it:

**Example 1: Output at end of process**

String s;

String input = JOptionPane.showInputDialog(null, “What’s the filename?”);

File inputFile = new File (input);

if( ! inputFile.exists() ) //ends the program if the file isn’t there

{

System.out.println(“Sorry, that file doesn’t exist. Good-bye!”);

System.exit(1);

}

Scanner myScan = new Scanner (inputFile); //scanner for reading from file

while ( myScan.hasNext( ) ) //keep reading until you reach the end of the file

{

s = myScan.next ( );

if ( s.length( ) > 10)

longWords++;

else if (s.length ( ) > 5)

medWords++;

else

shortWords++;

}

//output:

File outputfile = new File(“results.txt”);

PrintWriter out = new PrintWriter( );

out.close();

**Example 2: Output as you go**

***Using our BestActress data, create a new file that only has the winning titles listed***

//open file for input reading, and exit if it doesn’t exit

File inputFile = new File (“BestActress.txt”);

if(!inputFile.exists())

{

System.out.println(“Sorry, file doesn’t exist. Ending program.”);

System.exit(1); //use because we can’t recover from the error

}

//open file for output reading and declare PrintWriter

//read from file

Scanner scan = new Scanner (inputFile);

int sum = 0;

//read each line, adding the ages to a sum

while ( **scan.hasNext()**)

{

//read in everything on this one line

short year = scan.nextShort();

String name = scan.next(); //NOT nextLine!

String title = scan.next();

byte age = scan.nextByte();

String nationality = scan.next();

//add age to sum

sum += age;

//output the title to file

}

//find average & output to the user with JOptionPane

//close the output file