**ITMD 411**

**File Processing**

Here are the steps for simple file processing:

**Writing to a File**

declare a file name

declare a file processing object

store some text or numbers in a local variable

write the contents of the variable in the text file

close the file processing object

**Reading From a File**

declare a file name

declare a file processing object

read some text or numbers in a local variable

display the contents of the variable on the screen

close the file processing object

Here are some file processing examples:

**Java**

**import** java.io.\*;

**public** **class** fileProc {

**public** **static** **void** main(String[] args)

{

//initialize local variables

**double** x=0;

**int** count=3;

**try** {

// file variable declarations and initializations

BufferedReader fin = **new** BufferedReader(**new** FileReader("data.txt"));

PrintWriter fout = **new** PrintWriter( **new** BufferedWriter(**new** FileWriter("average.txt")));

StreamTokenizer st = **new** StreamTokenizer(fin);

// loop over the input file

**for** (**int** i=0;i<3;i++)

{

//read in an x value

st.nextToken();

// input an x value

x += st.nval;

}// closing for loop

// display average

fout.printf("Average= %2.2f " , x/count);

//disconnect from files

fin.close();

fout.close();

}// end of try

// catch I/O exceptions

**catch** (FileNotFoundException e)

{

System.*err*.println("FileNotFound\n");

}

**catch** (IOException e)

{

System.*err*.println("IOException\n");

}

}// main

}// end