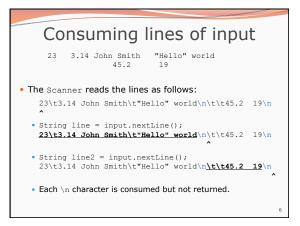
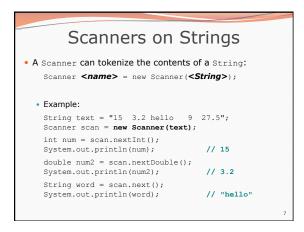
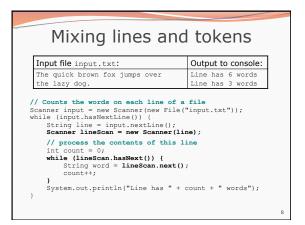


Method	Description
nextLine()	returns next entire line of input (from cursor to \n)
hasNextLine()	returns true if there are any more lines of input to read (always true for console input)







# Hours question

• Fix the Hours program to read the input file properly:

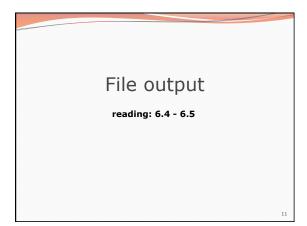
123 Ben 12.5 8.1 7.6 3.2 456 Greg 4.0 11.6 6.5 2.7 12 789 Victoria 8.0 8.0 8.0 8.0 7.5

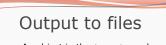
#### Recall, it should produce the following output:

Ben (ID#123) worked 31.4 hours (7.85 hours/day) Greg (ID#456) worked 36.8 hours (7.36 hours/day) Victoria (ID#789) worked 39.5 hours (7.90 hours/day)

# Hours answer, corrected // Processes an employee input file and outputs each employee's hours. import java.io.\*; // for File import java.util.\*; // for Scanner public static void processEmployee(String line) { Scanner linesCan.nextInt(); // e.g. 456 String name = lineScan.next(); // e.g. "Greg" double sum = 0.0; int count = 0; while (lineScan.heskextDouble()) { sum = sum + lineScan.nextDouble(); count+; } count+; coun

double average = sum / count; System.out.println(name + " (ID#" + id + ") worked " + sum + " hours (" + average + " hours/day)");





• **PrintStream:** An object in the java.io package that lets you print output to a destination such as a file.

 Any methods you have used on System.out (such as print, println) will work on a PrintStream.

#### • Syntax:

PrintStream <name> = new PrintStream(new File("<filename>"));

#### Example:

PrintStream output = new PrintStream(new File("out.txt"));
output.println("Hello, file!"); output.println("This is a second line of output.");

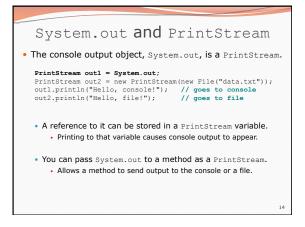
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# Details about PrintStream

PrintStream <name> = new PrintStream(new File("<filename>"));

- If the given file does not exist, it is created.
- If the given file already exists, it is overwritten.
- The output you print appears in a file, not on the console. You will have to open the file with an editor to see it.
- Do not open the same file for both reading (Scanner) and writing (PrintStream) at the same time.
  - You will overwrite your input file with an empty file (0 bytes).



### PrintStream question

• Modify our previous Hours program to use a PrintStream to send its output to the file <code>hours\_out.txt</code>.

- The program will produce no console output.
- But the file hours\_out.txt will be created with the text:

Ben (ID#123) worked 31.4 hours (7.85 hours/day) Greg (ID#456) worked 36.8 hours (7.36 hours/day) Victoria (ID#789) worked 39.5 hours (7.9 hours/day)

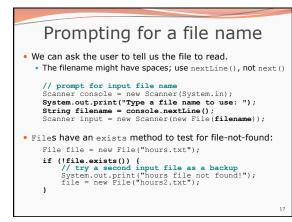
## PrintStream answer

# // Processes an employee input file and outputs each employee's hours import java.io.\*; // for File import java.util.\*; // for Scanner

- impublic class Rours2 {
   public class Rours2 {
   public distance right new Scanner(new File("hours.txt"));
   PrintStream out = new FintStream(new File("hours\_out.txt"));
   while (input.hashextline()) {
   String line input.nextlin();
   for classifier();
   for classifier();

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