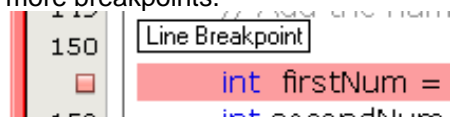

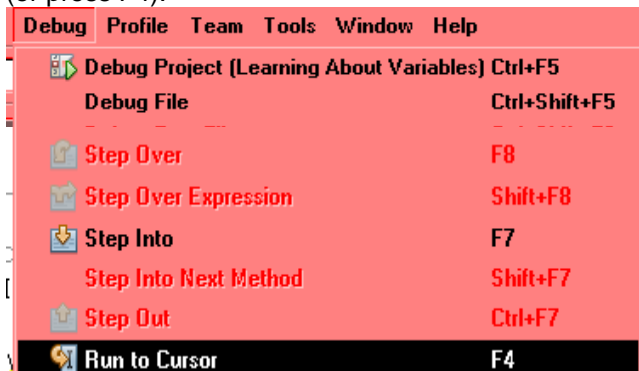
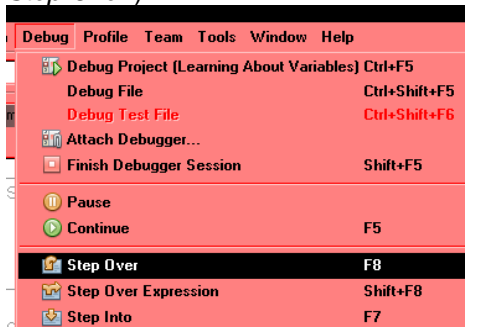
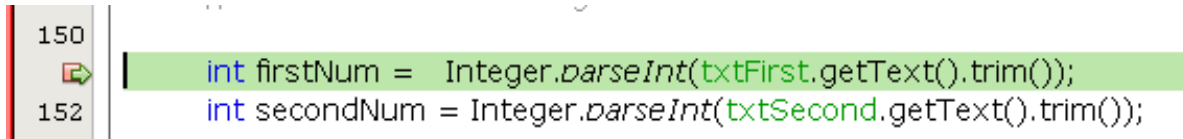


Debugging in Netbeans.doc

These notes are based on Ron Kessler's Java program: *Lesson 2: Learning about Variables*.

<p>Click in the number line (the left margin) to set one or more breakpoints.</p> 	<p>(You can also set method breakpoints).</p> 
<p>Enter debug mode: <i>Debug</i> menu → <i>Run to Cursor</i> (or press F4).</p> 	<p>To step through the program line-by-line, press F8 repeatedly (or <i>Debug</i> menu → <i>Step Over</i>).</p> 

When you first initiate the debugger, the program runs up to the cursor, then halts. The green tint indicates the next line to be executed.

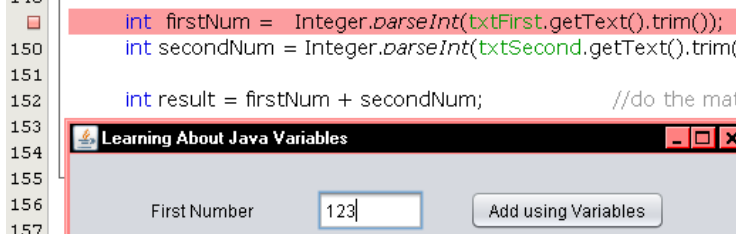


```

150 int firstNum = Integer.parseInt(txtFirst.getText().trim());
152 int secondNum = Integer.parseInt(txtSecond.getText().trim());

```

Enter data into the text field *firstNum* when the form opens.

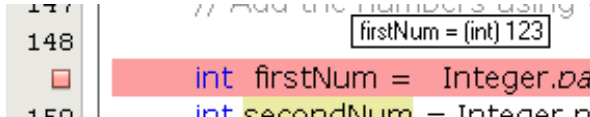


```

150 int firstNum = Integer.parseInt(txtFirst.getText().trim());
151 int secondNum = Integer.parseInt(txtSecond.getText().trim());
152 int result = firstNum + secondNum; //do the math

```

After you enter a number in text field *txtFirst*, you can hover the mouse over the variable (*firstNum*) to view its value.

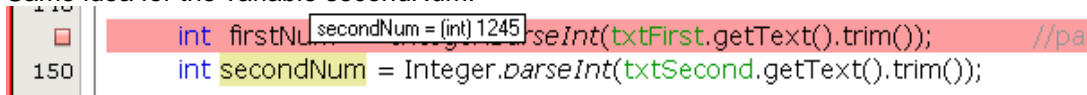


```

148 firstNum = (int) 123
150 int firstNum = Integer.parseInt(txtFirst.getText().trim());
150 int secondNum = Integer.parseInt(txtSecond.getText().trim());

```

Same idea for the variable *secondNum*.

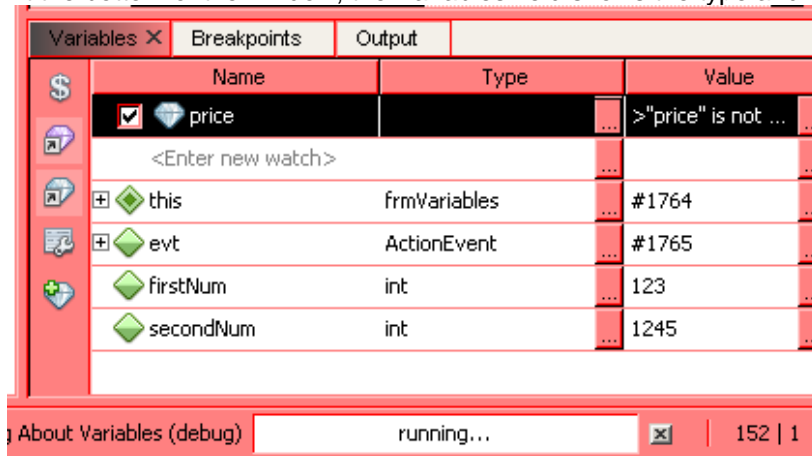


```

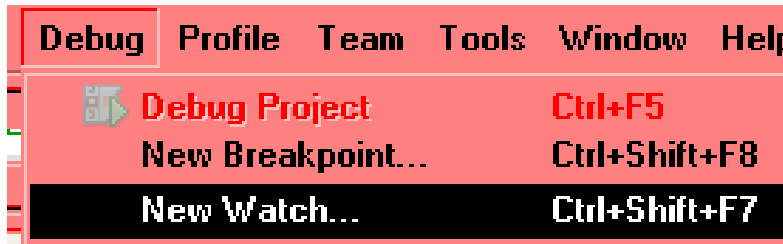
150 int firstNum = Integer.parseInt(txtFirst.getText().trim()); //par
150 int secondNum = Integer.parseInt(txtSecond.getText().trim());

```

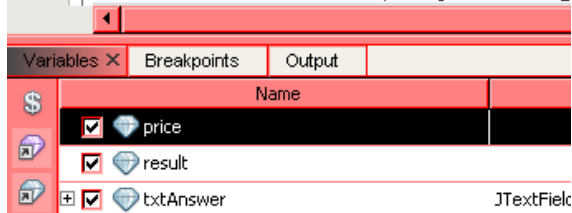
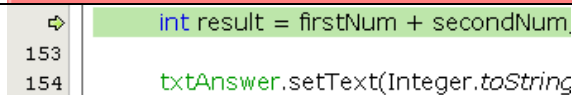
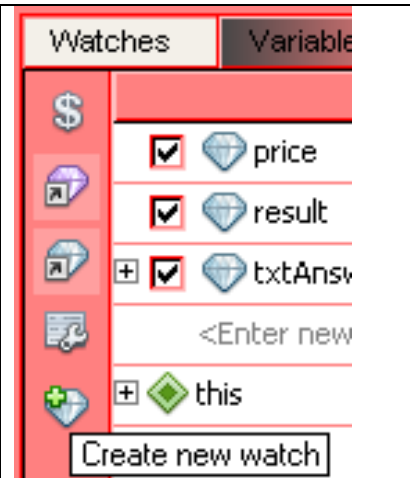
At the bottom of the window, the Variables field shows the type and value for each variable.



You can also add an additional variable to track: *Debug* menu → *New Watch* (or Ctrl+Shift+F7). You can also click the 5th button in the *Watches* window.



Enter the variable name in the *New Watch* dialog.



At left: the new watches appear at the top of the Variables window.

At any time, you can terminate the debugging session: *Debug* menu → *Finish Debugger Session* (or enter Shift+F5).

