



















The for Statement

- An example of a for loop:
 - for (int count=1; count <= 5; count++)
 System.out.println (count);</pre>
- The initialization section can be used to declare a variable
- Like a while loop, the condition of a for loop is tested prior to executing the loop body
- Therefore, the body of a for loop will execute zero or more times







The for Statement

- Each expression in the header of a ${\tt for}$ loop is optional
- If the initialization is left out, no initialization is performed
- If the condition is left out, it is always considered to be true, and therefore creates an infinite loop
- If the increment is left out, no increment operation is performed

2004 Pearson Addison-Wesley. All rights reserved







2.10 Using the Debugger

jGRASP provides an easy-to-use visual Debugger that allows you to set one or more breakpoints, then step through a program statement by statement. To set a breakpoint, left-click on the statement where you want your program to stop, then right-click and select **Toggle Breakpoint** (Figure 2-17). You should see the red octagonal breakpoint symbol appear to the left of the line. The statement you select must be an executable statement (i.e., one that causes the program to do something). You can also set a breakpoint by hovering the mouse over the leftmost column of the line where you want to set the breakpoint. When you see the red breakpoint symbol, left-click the mouse to set the breakpoint.

In the Hello2 program below, a breakpoint has been set on the first of the two System.out.println statements, which are the only statements in this program that allow a breakpoint.

After setting the breakpoint, click **Run – Debug** (Figure 2-18). This should raise the Debug tab pane (in place of the Browse tab pane), and your program should stop at the breakpoint. The highlighted statement is the one about to be executed.

© 2004 Pearson Addison-Wesley, All rights reserved























