

Spoken Tutorial Netbeans Debugger

Talk to a Teacher

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://www.sakshat.ac.in>

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Introduction

► <http://spoken-tutorial.org>



System Setup

► Ubuntu 12.04



System Setup

- ▶ **Ubuntu 12.04**
- ▶ **Netbeans v7.1.1**



Netbeans Debugger

- ▶ Debugging can be a rather painstaking task



Netbeans Debugger

- ▶ Debugging can be a rather painstaking task
- ▶ Familiarity with Debugging saves time



Netbeans Debugger

- ▶ Netbeans Debugger - powerful debugging tool



Netbeans Debugger

- ▶ Netbeans Debugger - powerful debugging tool
- ▶ Very useful when you code or test large programs



Lesson Outline

This tutorial will acquaint you with,
▶ the Debugging window



Lesson Outline

This tutorial will acquaint you with,

- ▶ the Debugging window
- ▶ **Configuring breakpoints**



Lesson Outline

This tutorial will acquaint you with,

- ▶ the Debugging window
- ▶ Configuring breakpoints
- ▶ Evaluating expressions (setting watches)



Lesson Outline

This tutorial will acquaint you with,

- ▶ options for tracing the execution of your program



Lesson Outline

This tutorial will acquaint you with,

- ▶ options for tracing the execution of your program
- ▶ options to configure the debugger itself



Assignment!

Take any of your programs

- ▶ Set breakpoints in your code.
Usually, at function call if you suspect the function



Assignment!

Take any of your programs

- ▶ Set breakpoints in your code.
Usually, at function call if you suspect the function
- ▶ Use Step-Into to go into the function

Assignment!

Take any of your programs

- ▶ Set breakpoints in your code. Usually, at function call if you suspect the function
- ▶ Use Step-Into to go into the function
- ▶ Use Step-Overs and inspect the values of variables



Assignment!

Take any of your programs

- ▶ Add some watches to identify and correct the error



Assignment!

Take any of your programs

- ▶ Add some watches to identify and correct the error
- ▶ **Step-Out of the Method**



Assignment!

Take any of your programs

- ▶ Add some watches to identify and correct the error
- ▶ Step-Out of the Method
- ▶ Continue till you reach the next breakpoint

Assignment!

Take any of your programs

- ▶ Add some watches to identify and correct the error
- ▶ Step-Out of the Method
- ▶ Continue till you reach the next breakpoint
- ▶ Finish the debugger session and Run your application



Recap

In this tutorial, we became familiar with the Netbeans Debugger. We saw how to

- ▶ Set breakpoints and watches



Recap

In this tutorial, we became familiar with the Netbeans Debugger. We saw how to

- ▶ Set breakpoints and watches
- ▶ Evaluate expressions and watch them at runtime



Recap

In this tutorial, we became familiar with the Netbeans Debugger. We saw how to

- ▶ Trace execution of a program with Step-Into, Step-Over, Step-Out and Run-to-Cursor options

Recap

In this tutorial, we became familiar with the Netbeans Debugger. We saw how to

- ▶ Trace execution of a program with Step-Into, Step-Over, Step-Out and Run-to-Cursor options
- ▶ **Configure the debugger for advanced debugging**



About the Spoken Tutorial Project

- ▶ Watch the video available at http://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project
- ▶ If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, contact contact@spoken-tutorial.org



Acknowledgements

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- ▶ It is supported by the National Mission on Education through ICT, MHRD, Government of India
- ▶ More information on this Mission is available at

<http://spoken-tutorial.org/NMEICT-Intro>



About the contributor

IT for Change, Bengaluru

- ▶ This tutorial has been contributed by IT for Change



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- ▶ This tutorial has been contributed by IT for Change
- ▶ Thank you

