

ECE 462 C++ and Java

Lab Exercise 1

Netbeans 

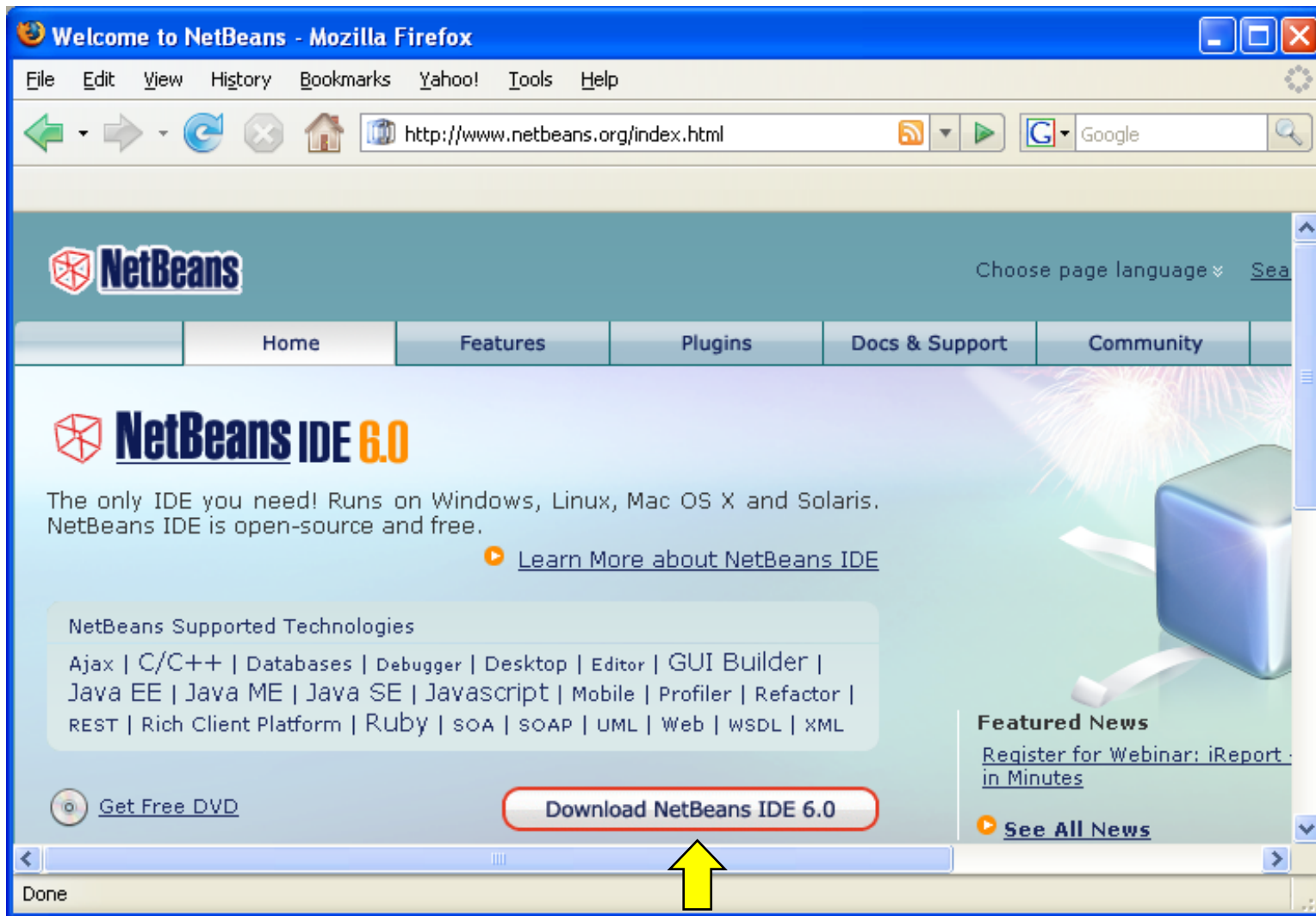
Yung-Hsiang Lu

yunглу@purdue.edu

Goals

- learn the Netbeans working environment
- write, compile, and execute Java programs
- set up a code repository for version control
- create a simple user interface with menu and buttons

http://www.netbeans.org/

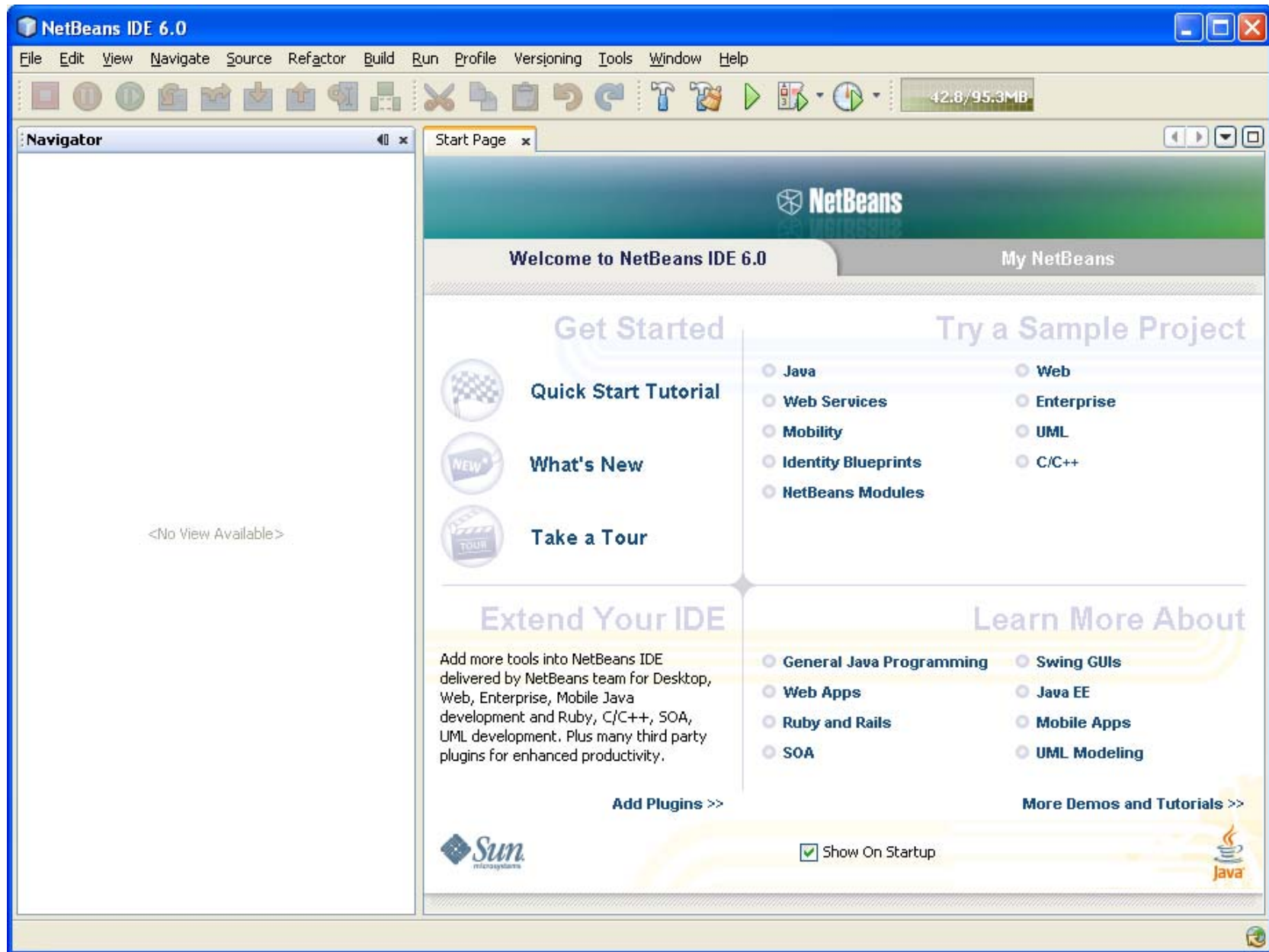


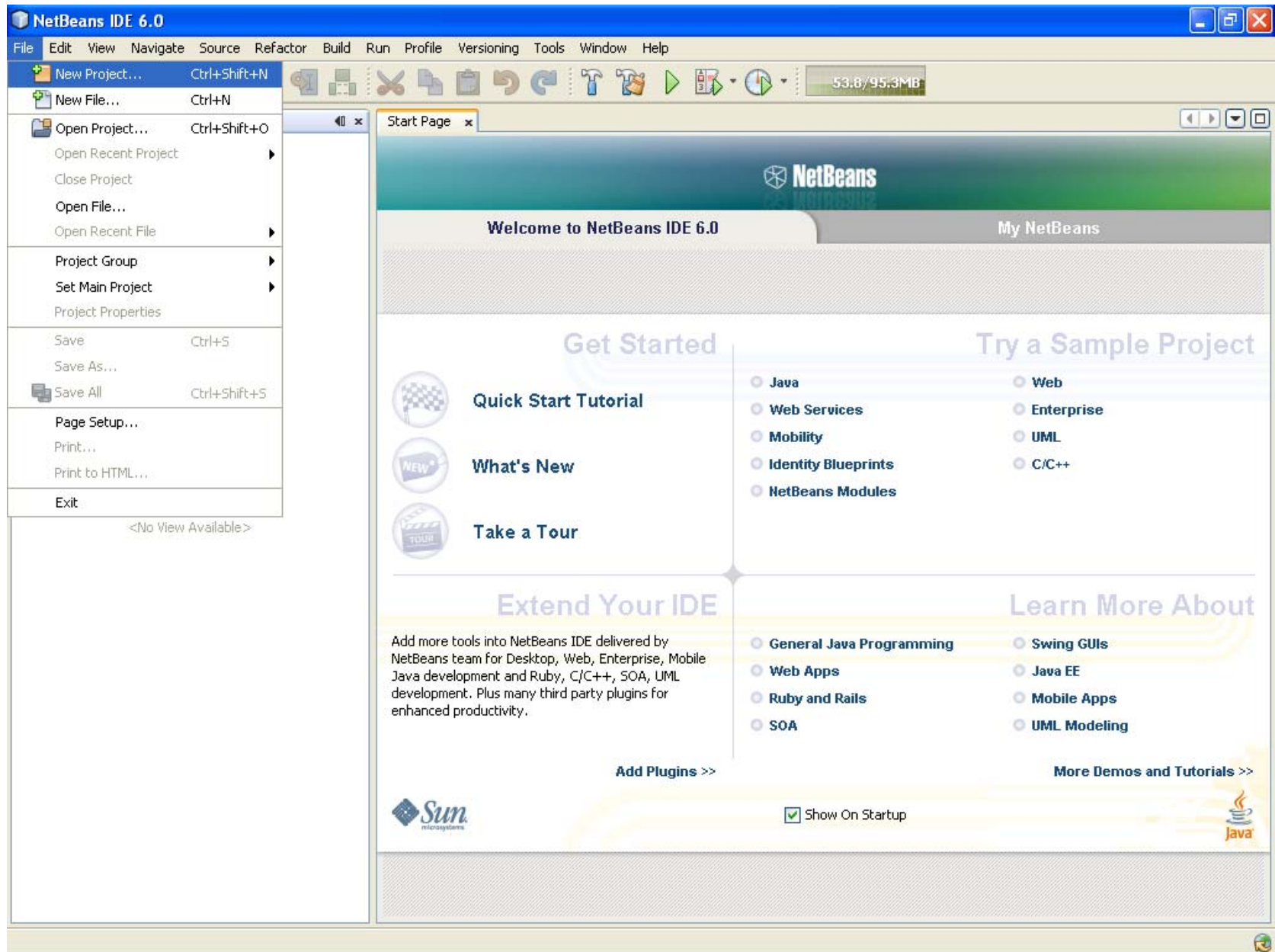
Create a Project in Netbeans

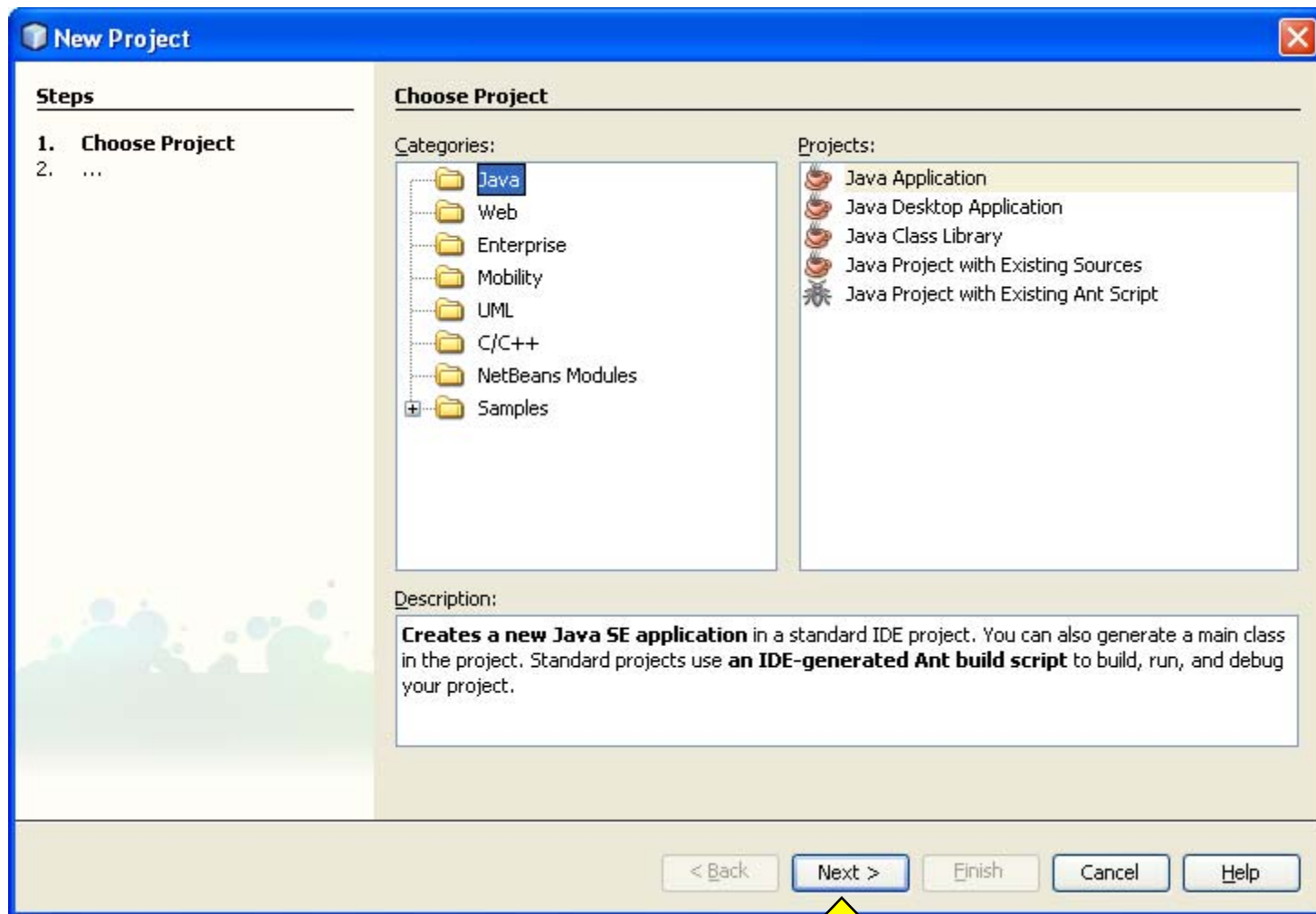


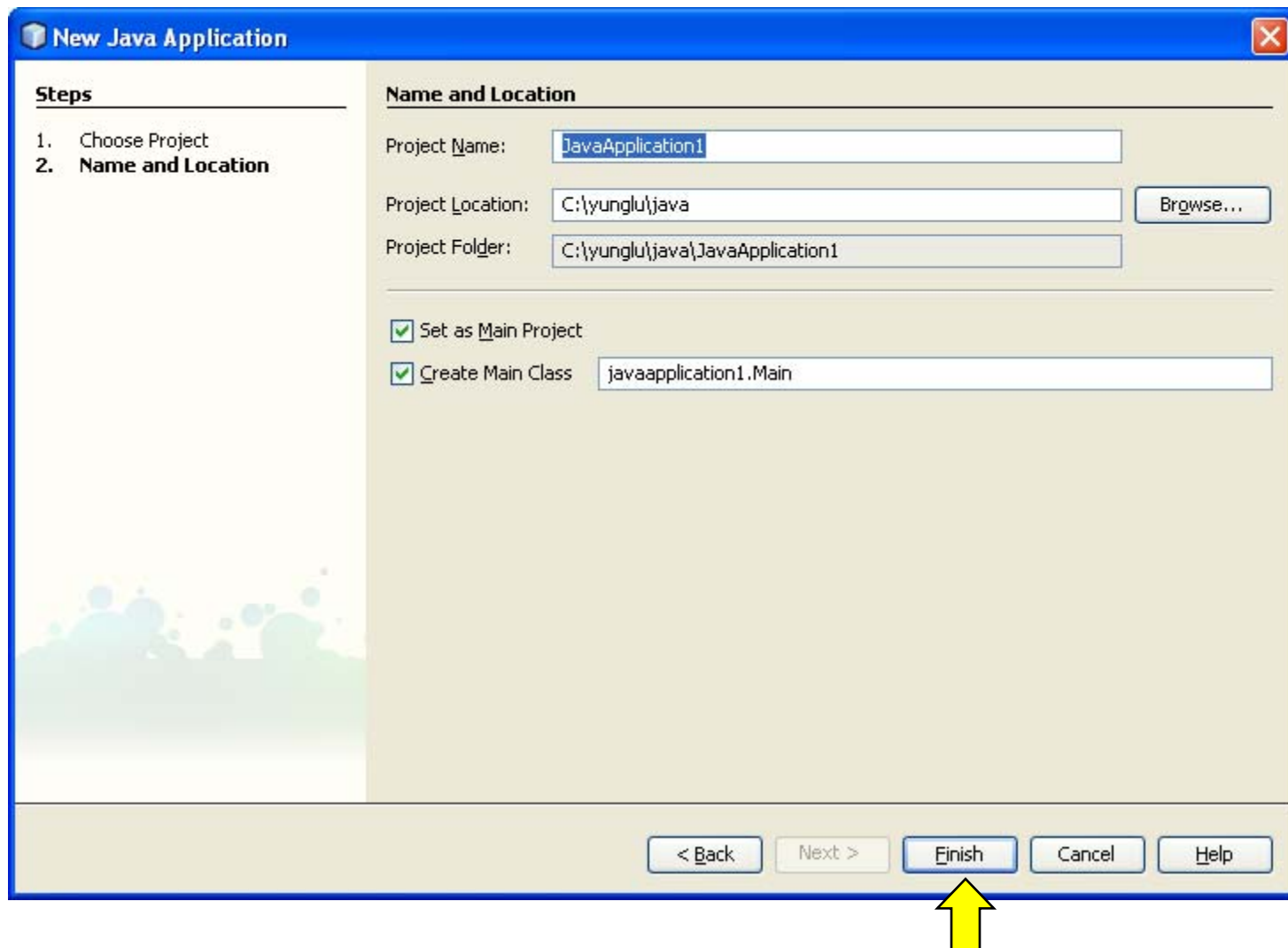
Loading modules...

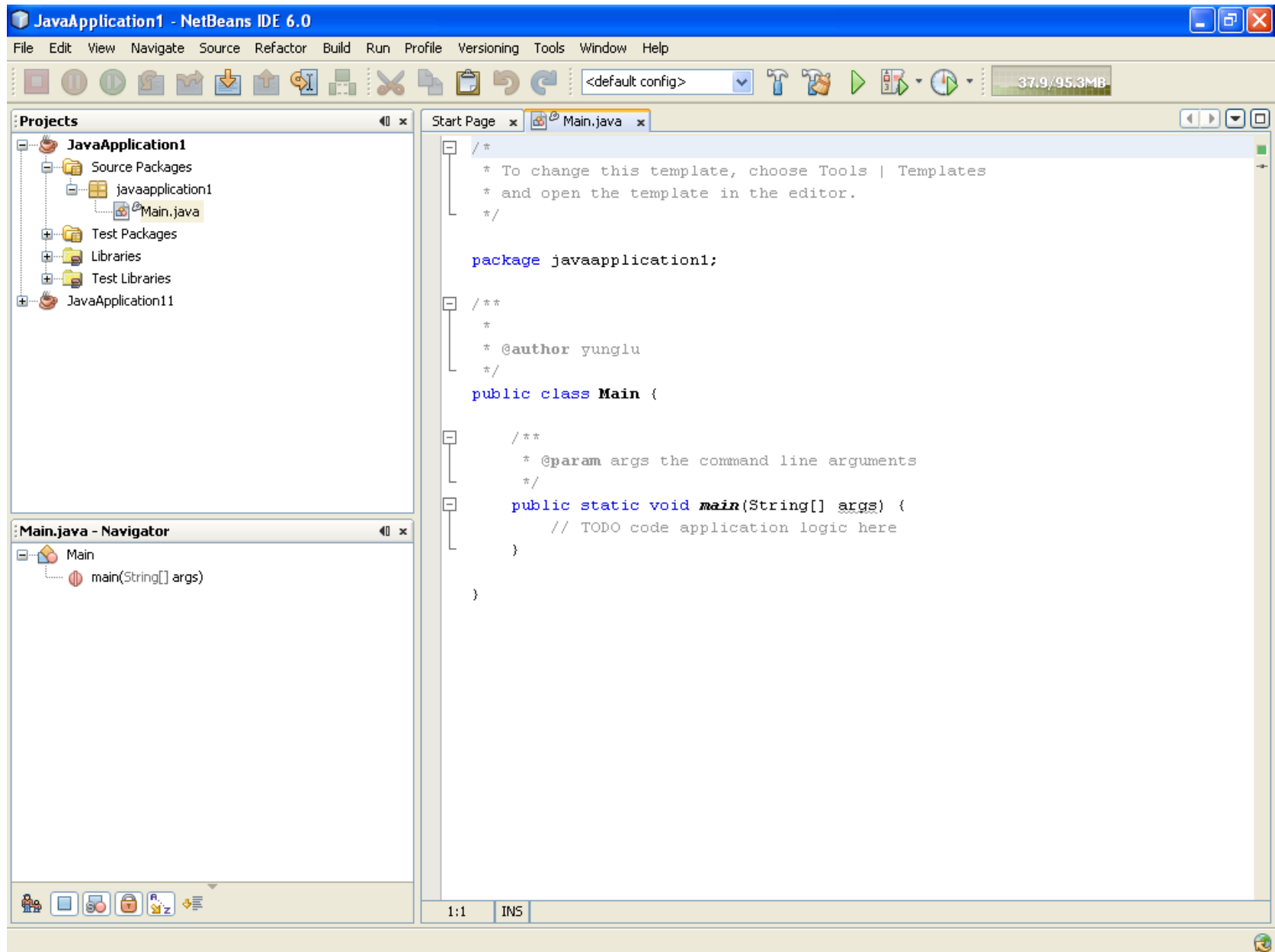
NetBeans IDE and NetBeans Platform are based on software from netbeans.org, which has been dual licensed under the Common Development and Distribution License (CDDL) and the GNU General Public License version 2 with Classpath exception. For more information, please visit www.netbeans.org.

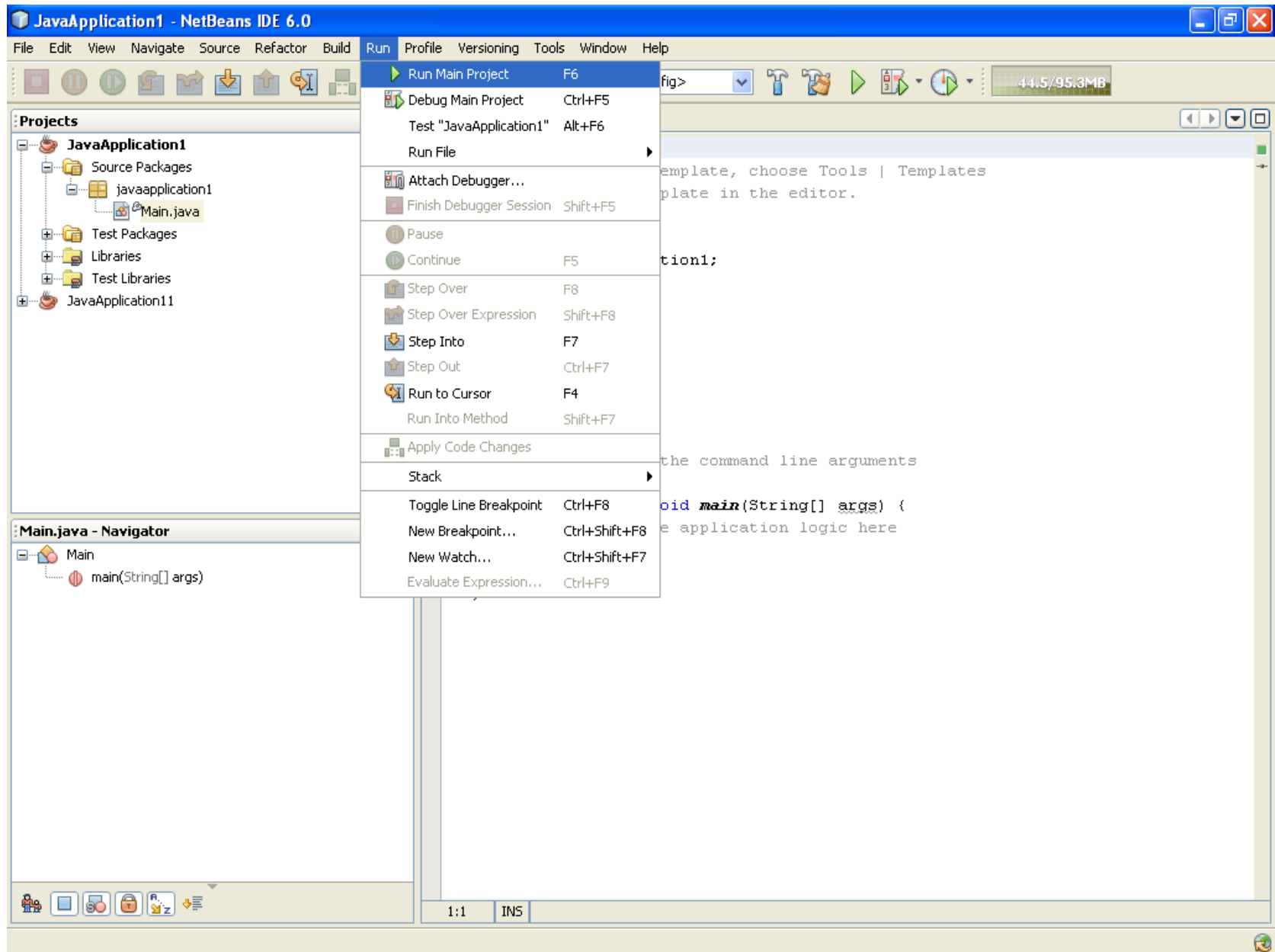


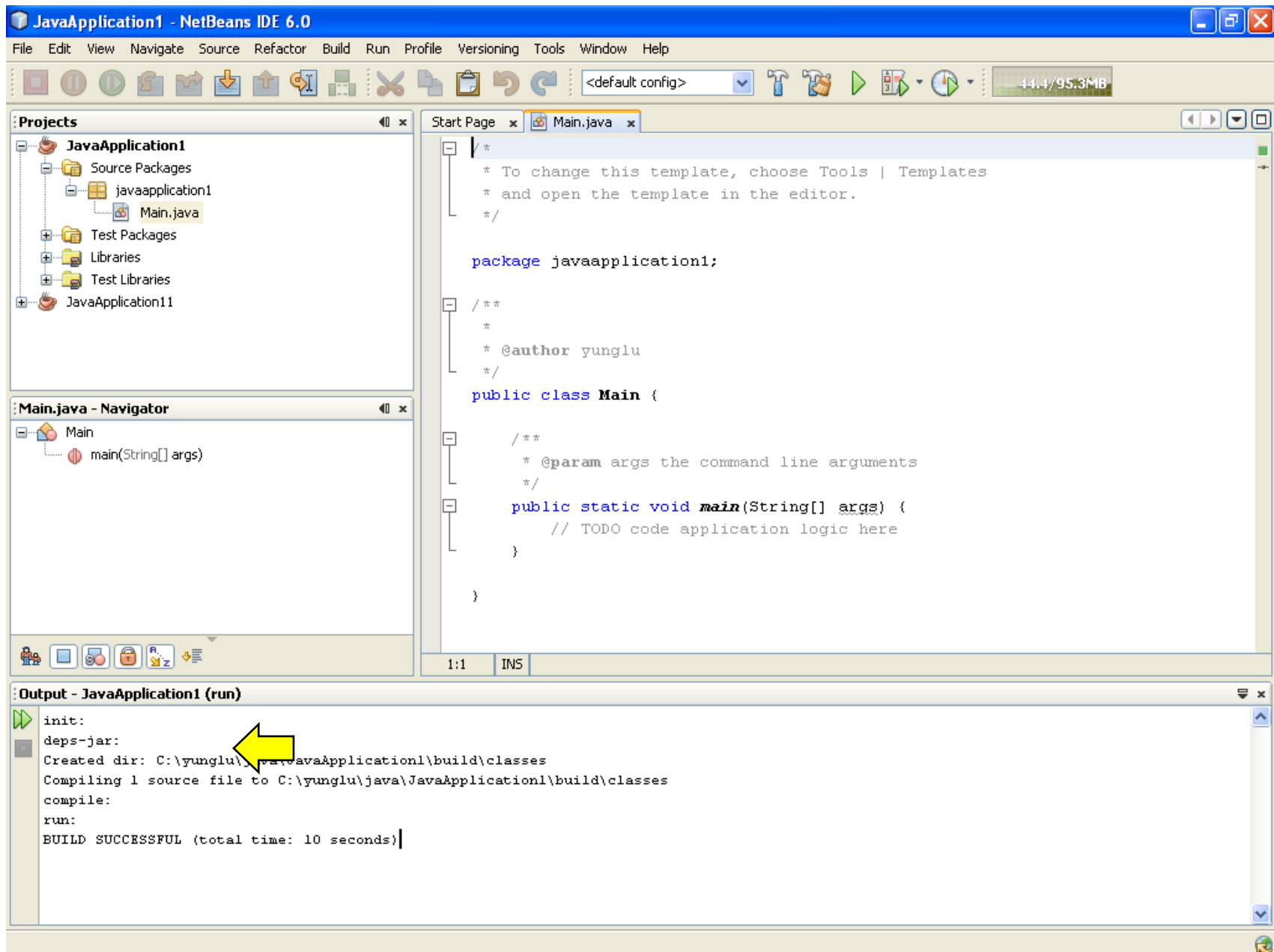


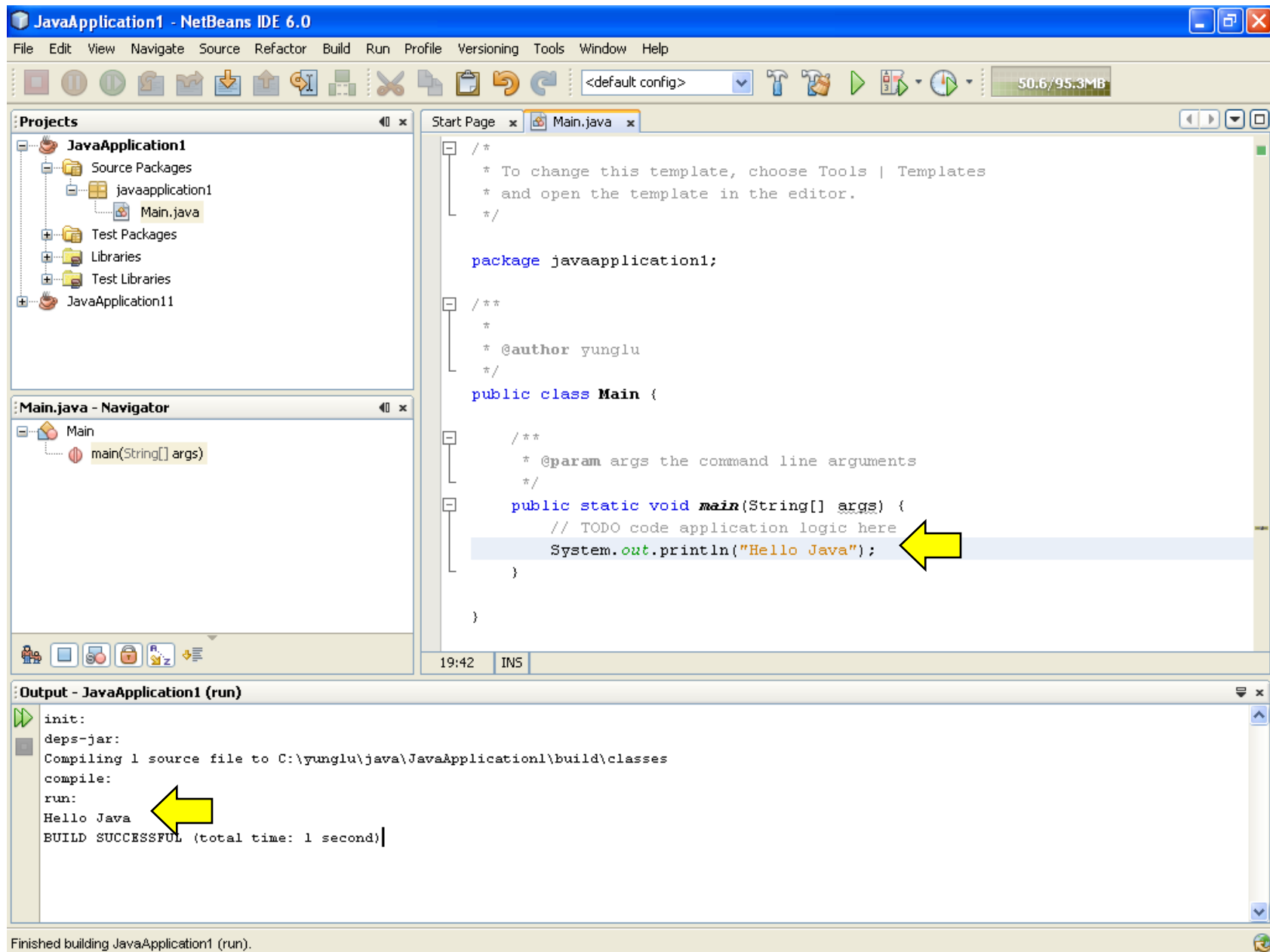




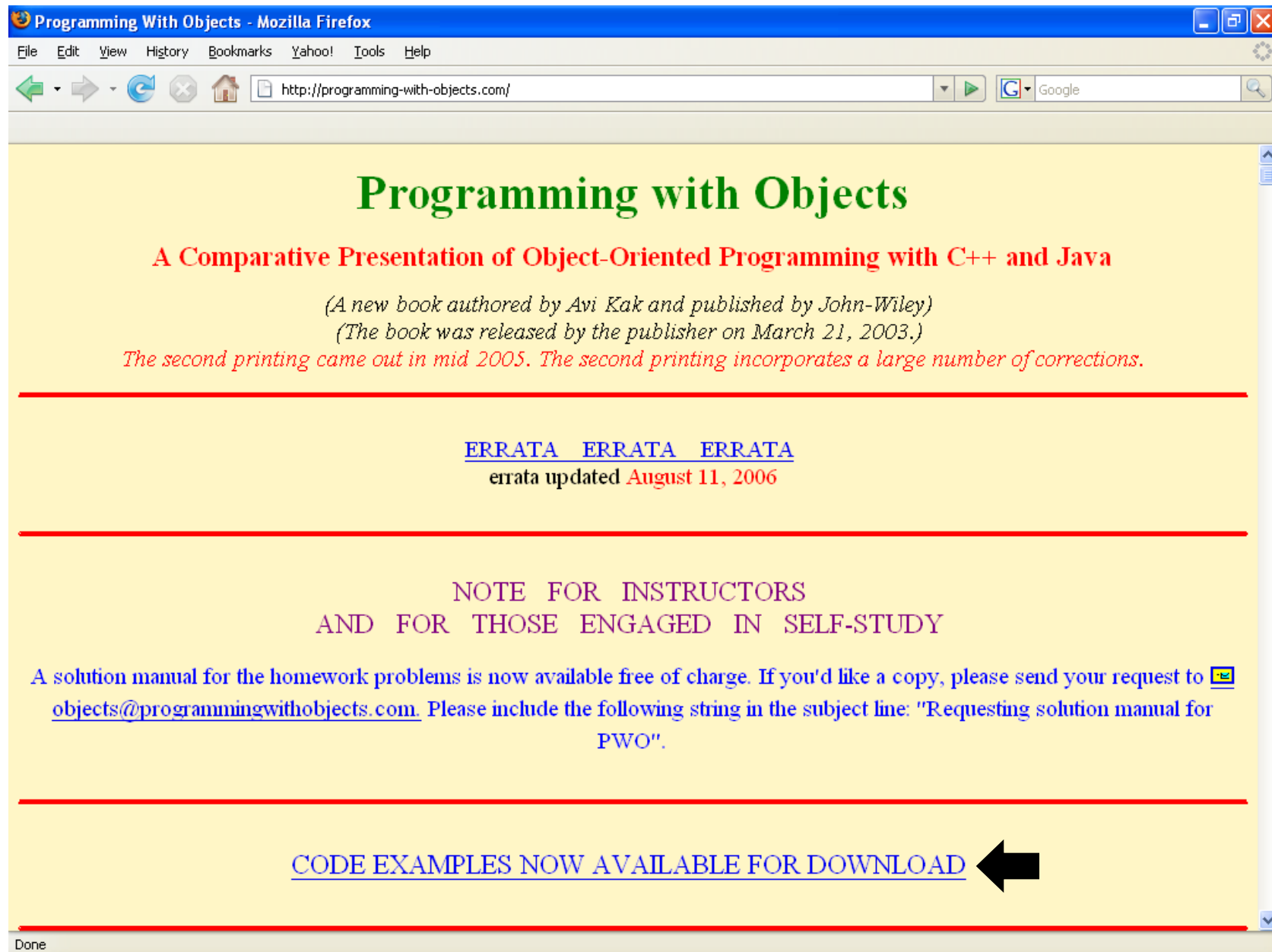


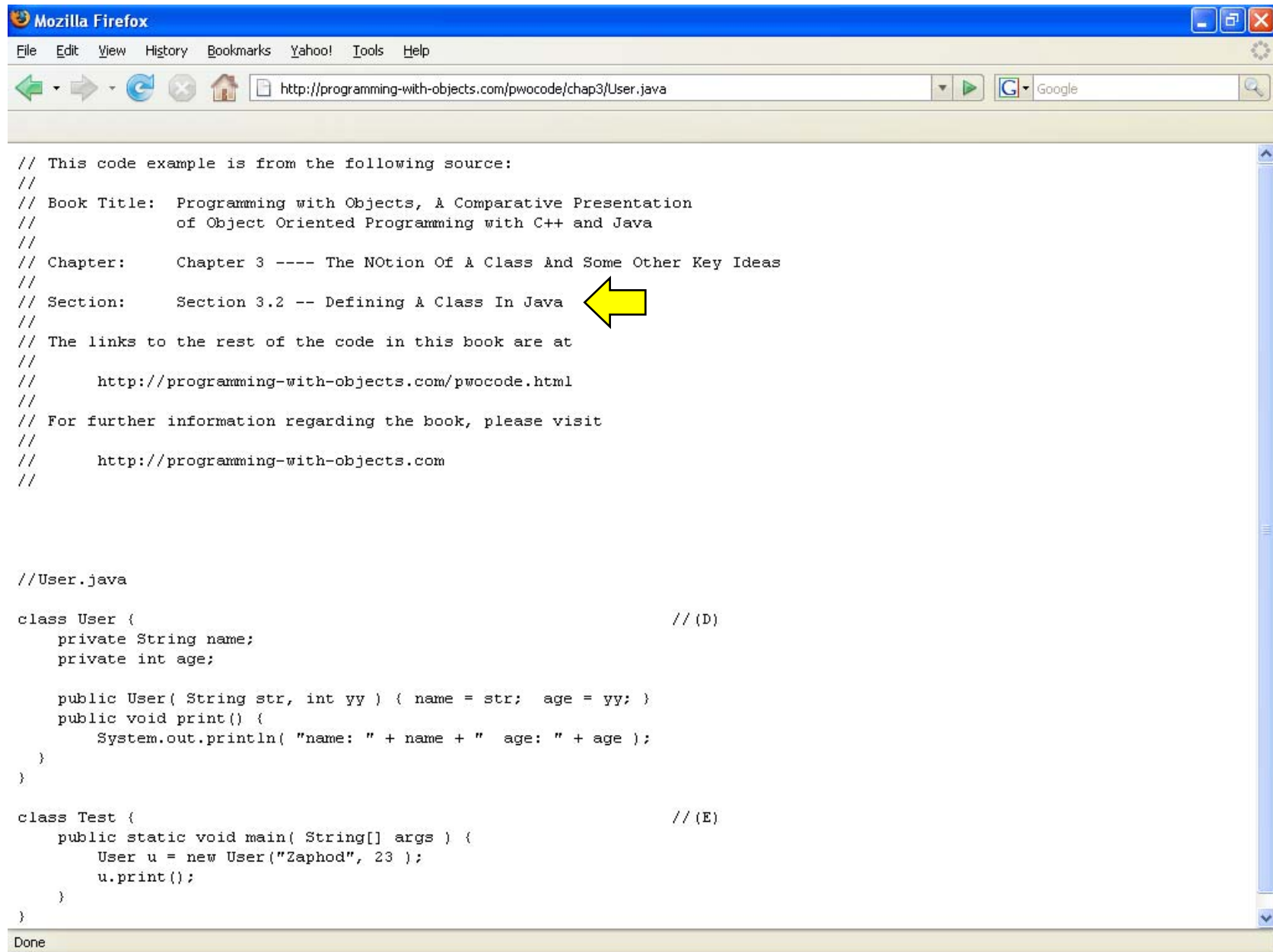






Sample Programs from Textbook





Mozilla Firefox

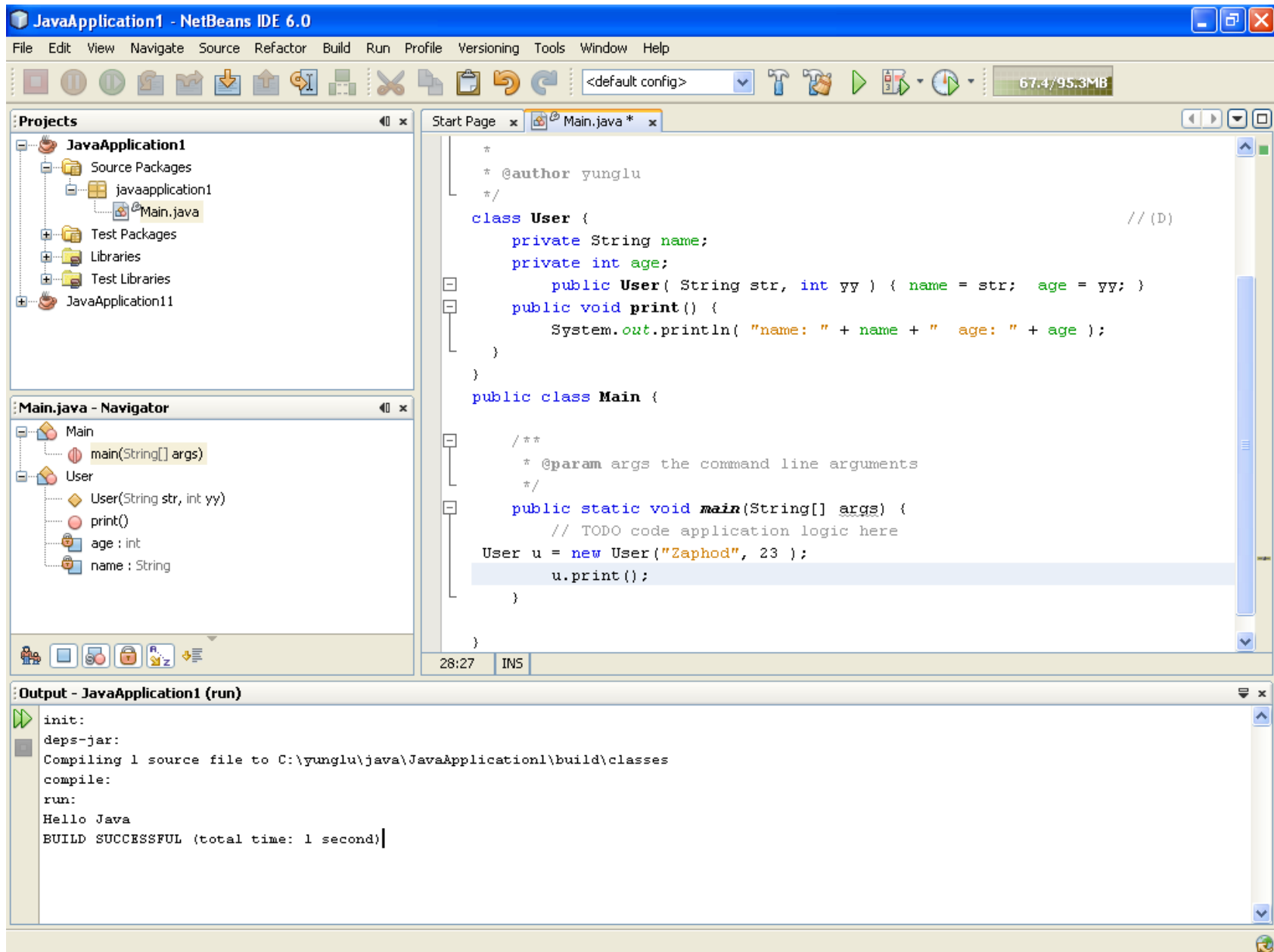
File Edit View History Bookmarks Yahoo! Tools Help

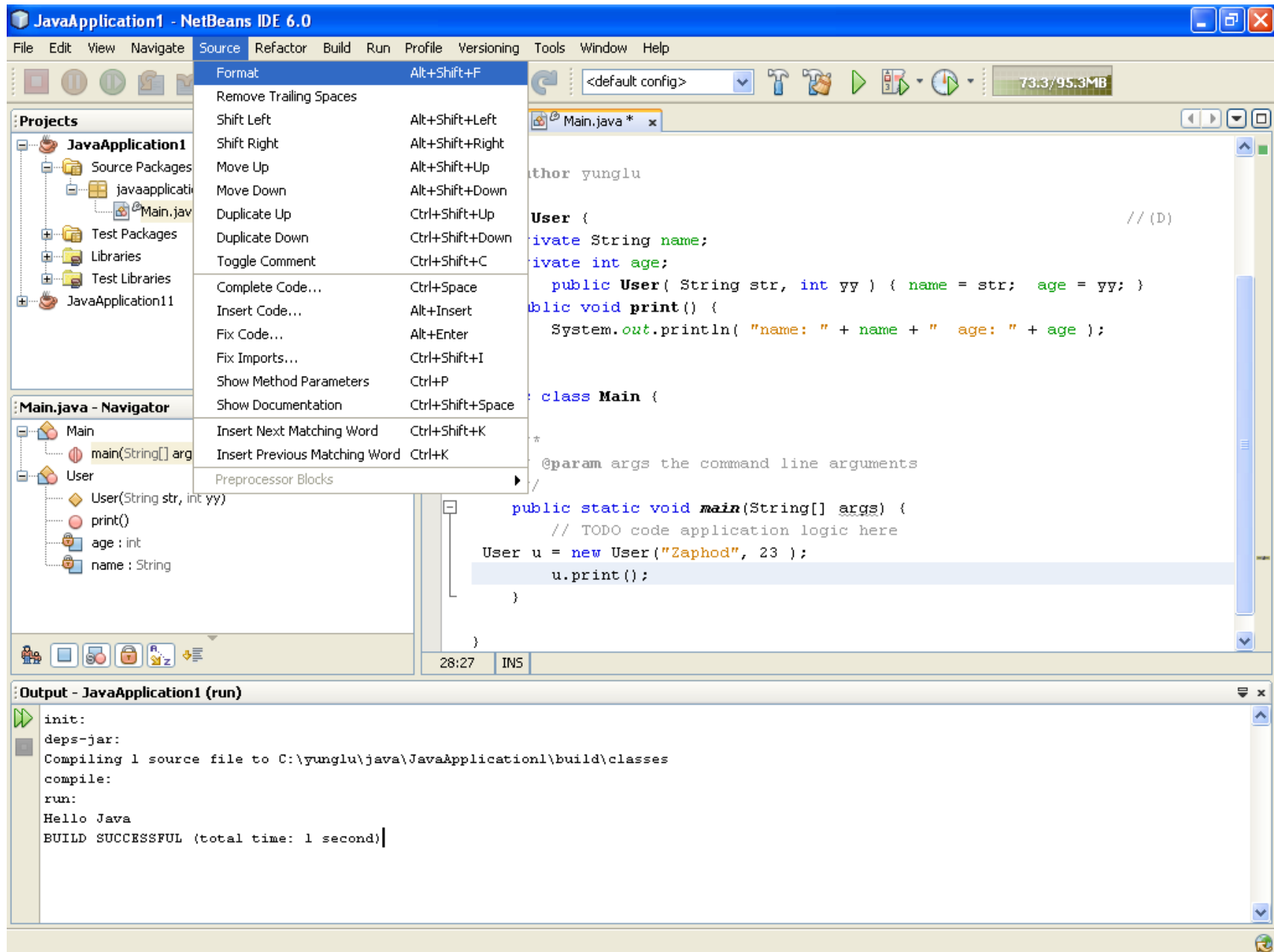
http://programming-with-objects.com/pwocode/chap3/User.java

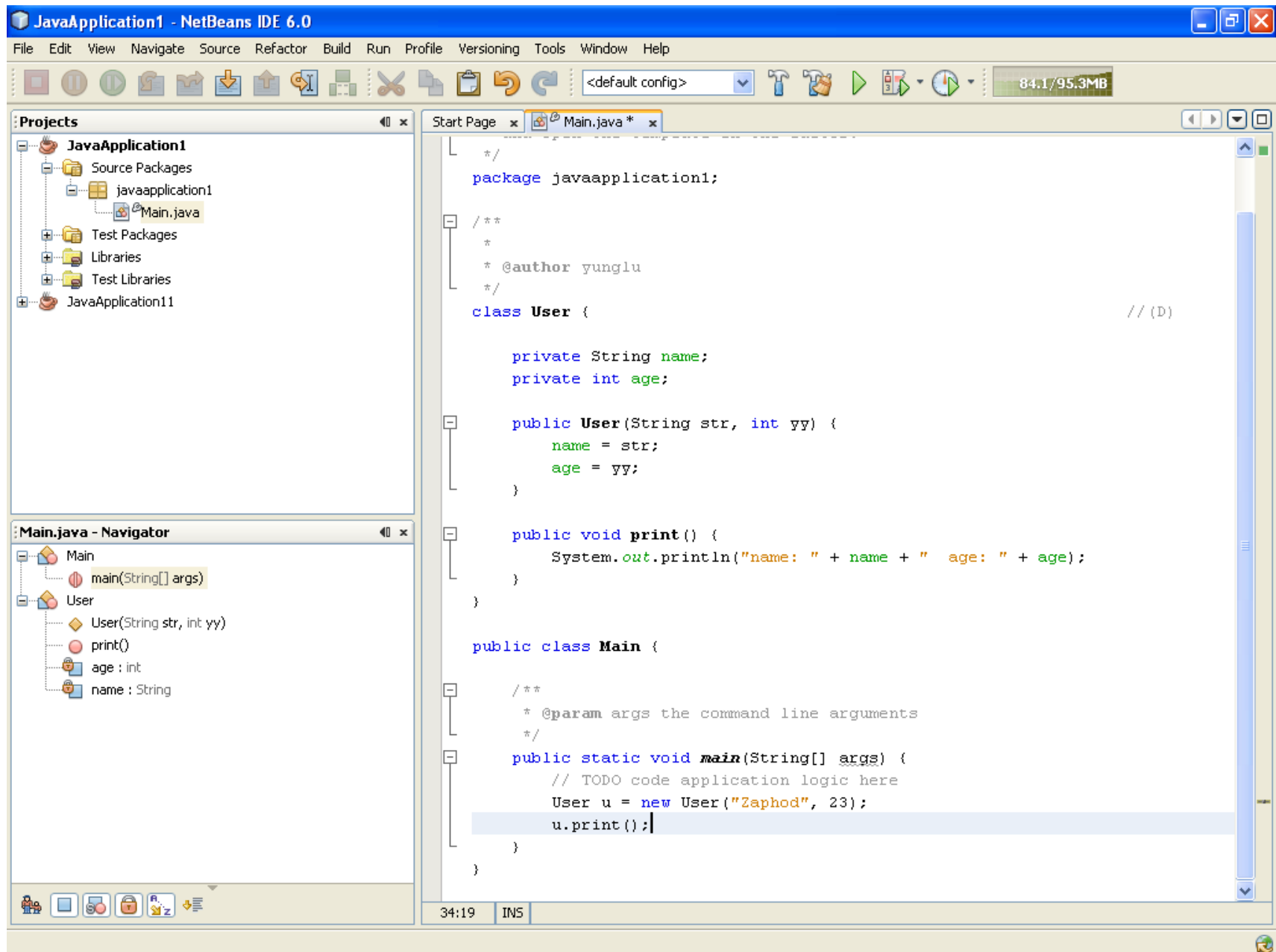
Google

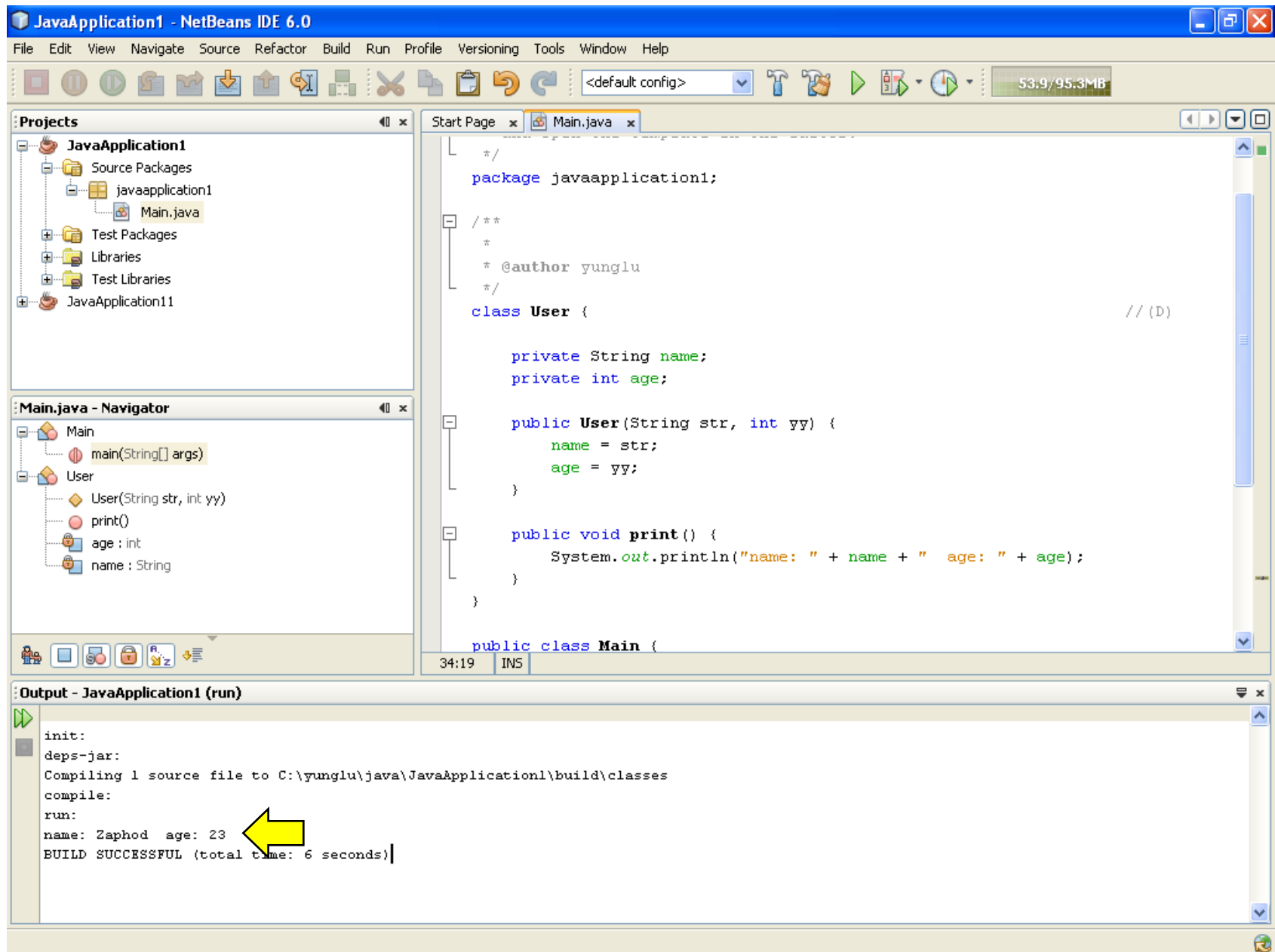
```
// This code example is from the following source:  
//  
// Book Title:  Programming with Objects, A Comparative Presentation  
//              of Object Oriented Programming with C++ and Java  
//  
// Chapter:    Chapter 3 ---- The NOtion Of A Class And Some Other Key Ideas  
//  
// Section:    Section 3.2 -- Defining A Class In Java  
//  
// The links to the rest of the code in this book are at  
//  
//      http://programming-with-objects.com/pwocode.html  
//  
// For further information regarding the book, please visit  
//  
//      http://programming-with-objects.com  
//  
  
//User.java  
  
class User {                                // (D)  
    private String name;  
    private int age;  
  
    public User( String str, int yy ) { name = str;  age = yy; }  
    public void print() {  
        System.out.println( "name: " + name + " age: " + age );  
    }  
}  
  
class Test {                                // (E)  
    public static void main( String[] args ) {  
        User u = new User("Zaphod", 23 );  
        u.print();  
    }  
}
```

Done

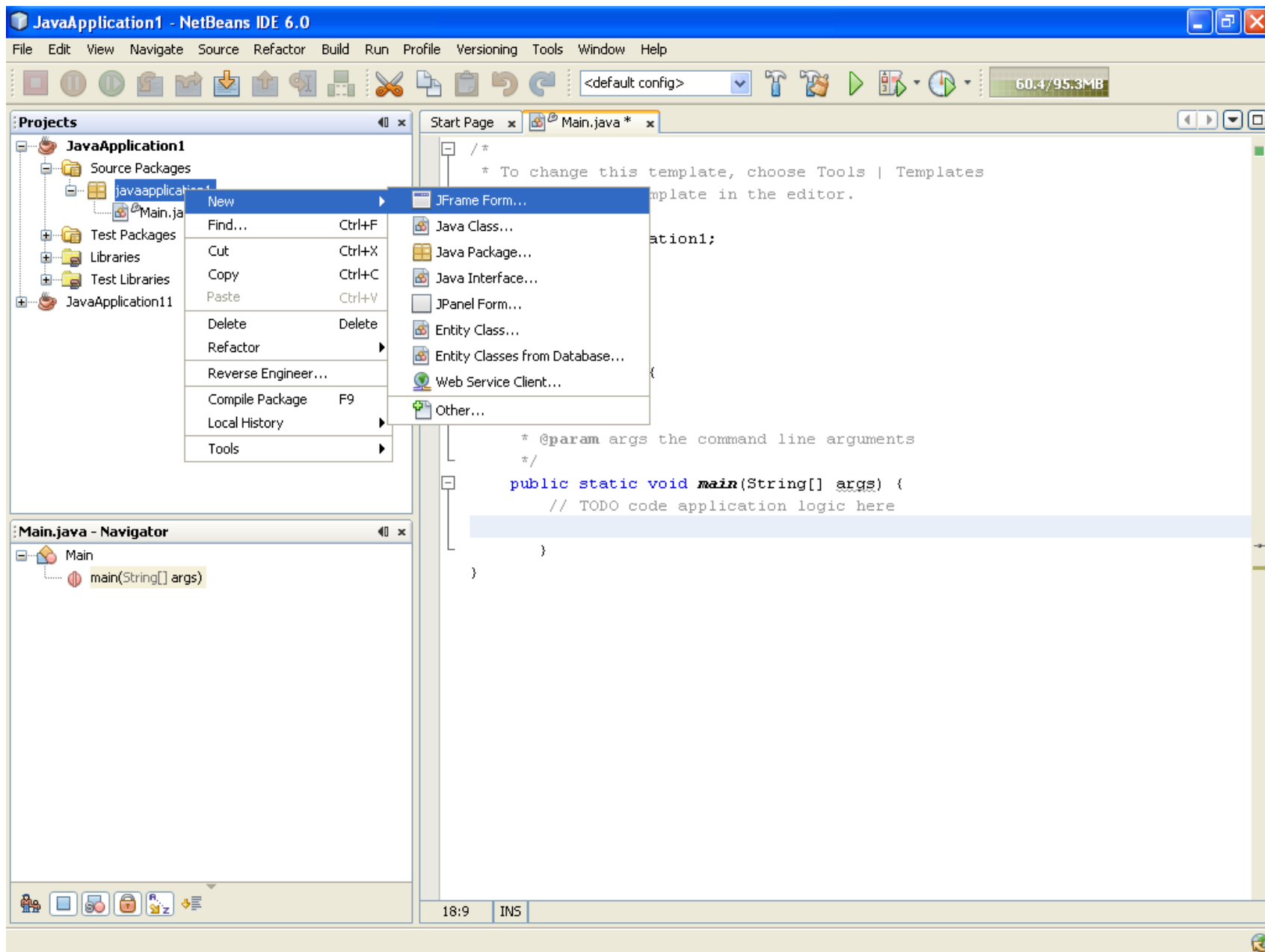








Create Graphical User Interface



New JFrame Form

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

Class Name:

Project:

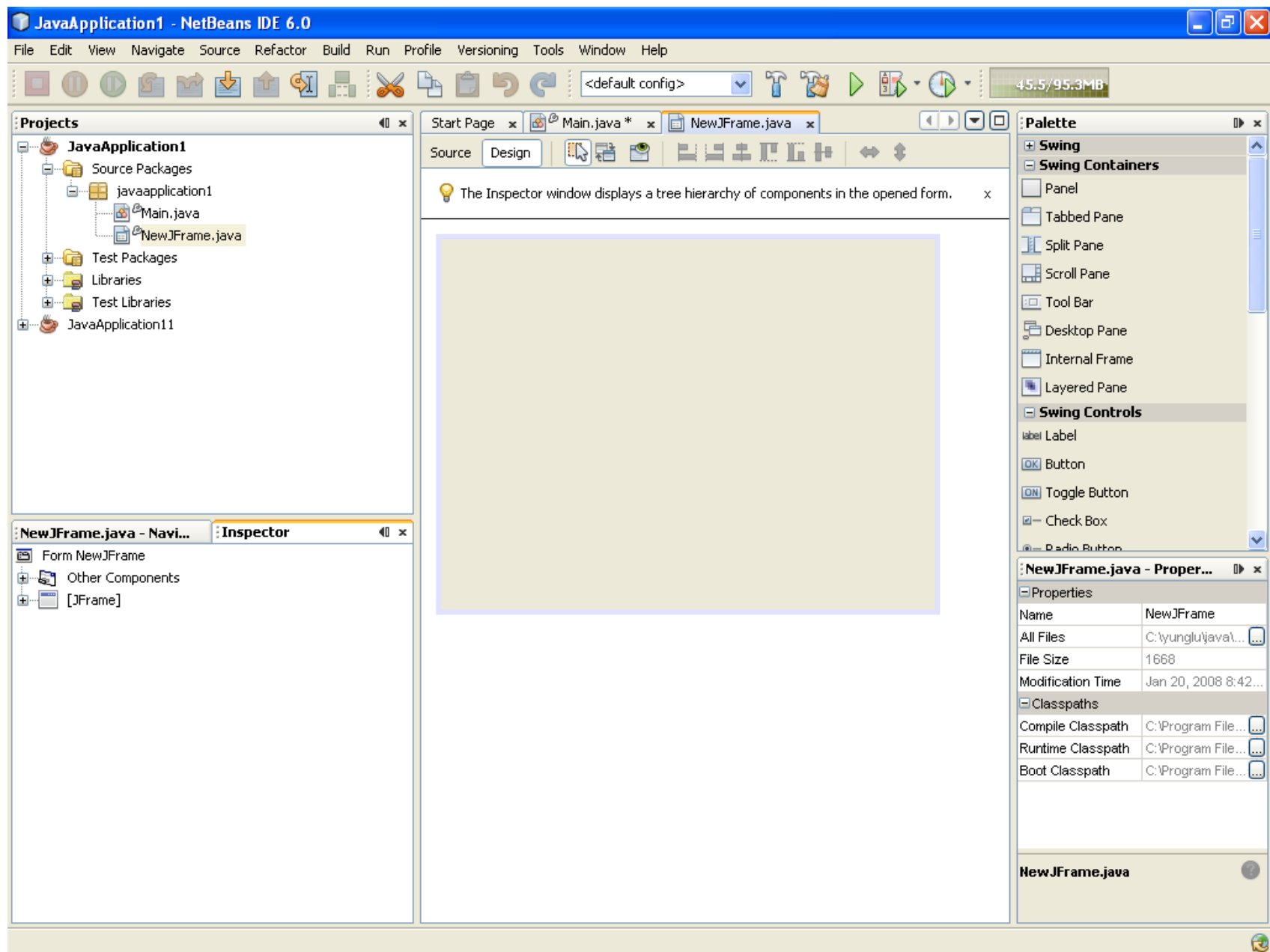
Location:

Package:

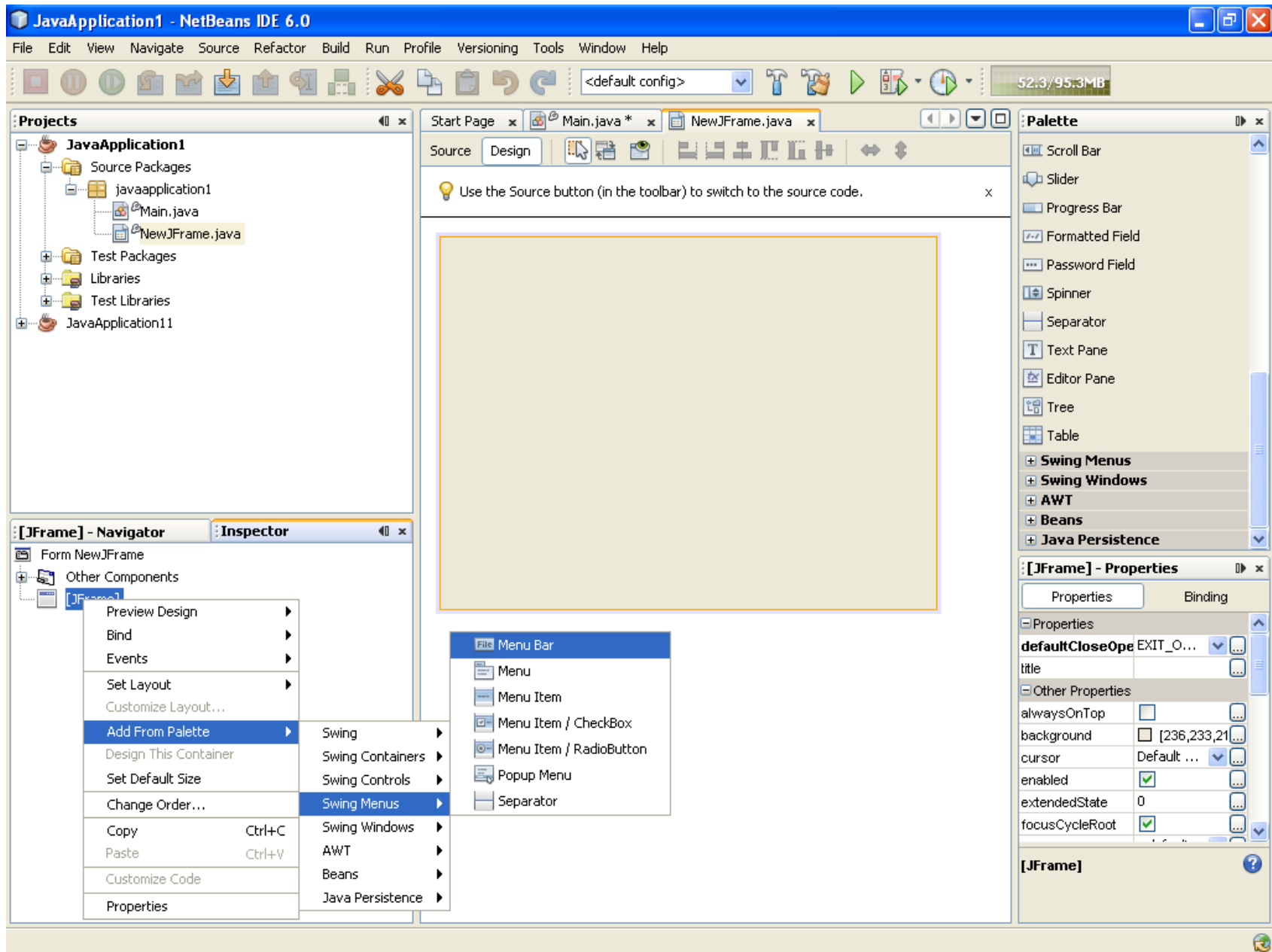
Created File:

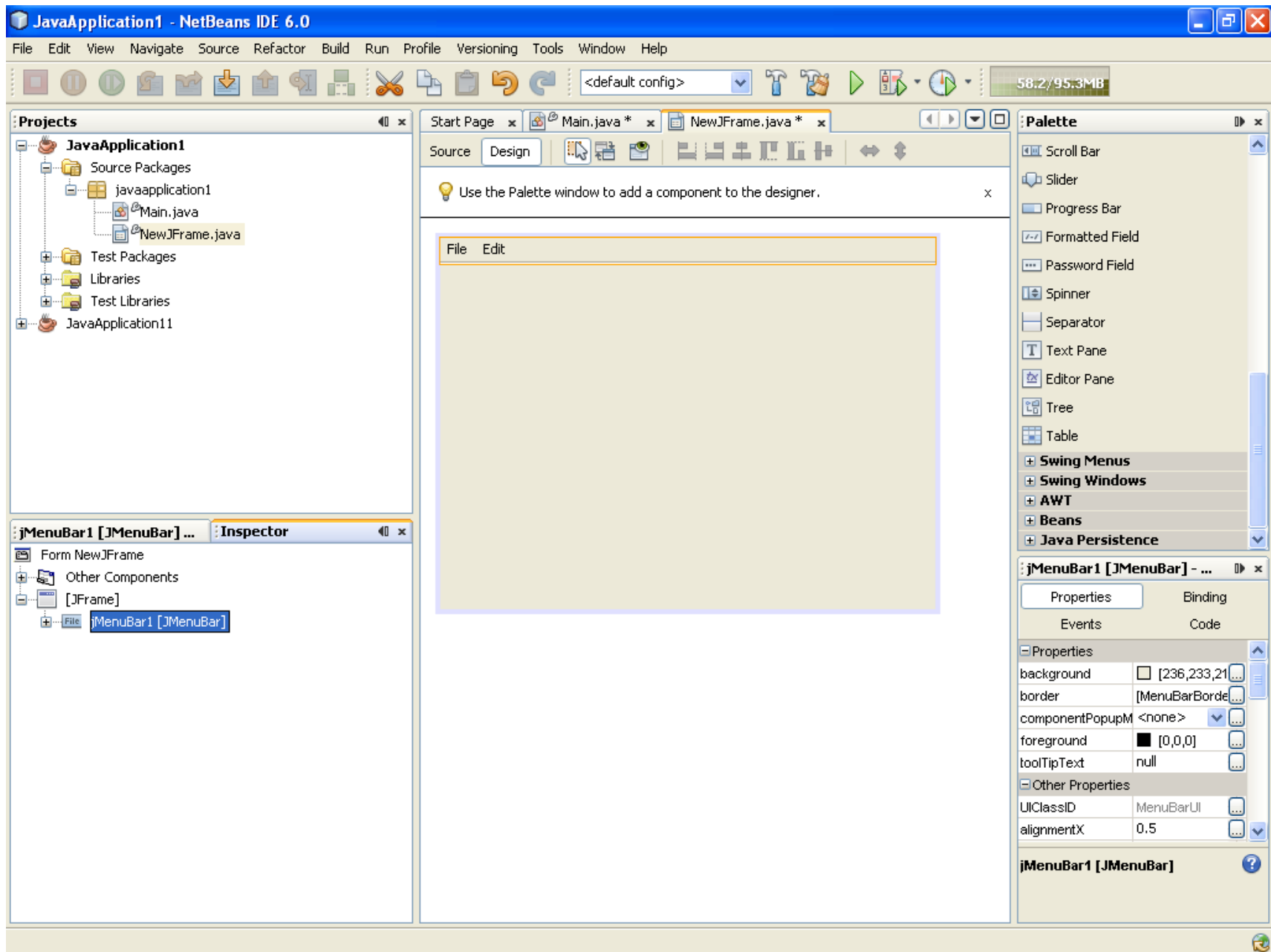
< Back Next > **Finish** Cancel Help

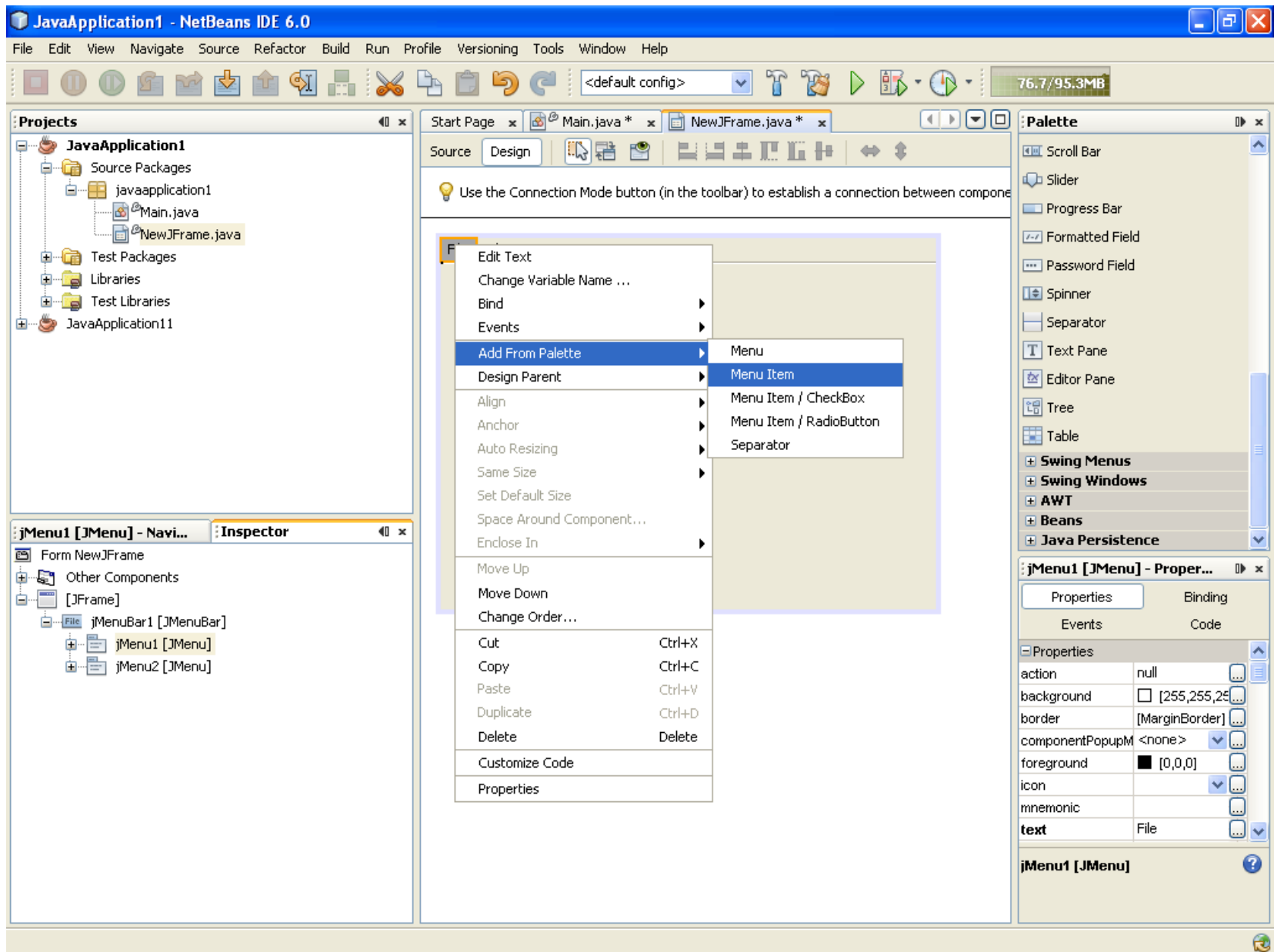


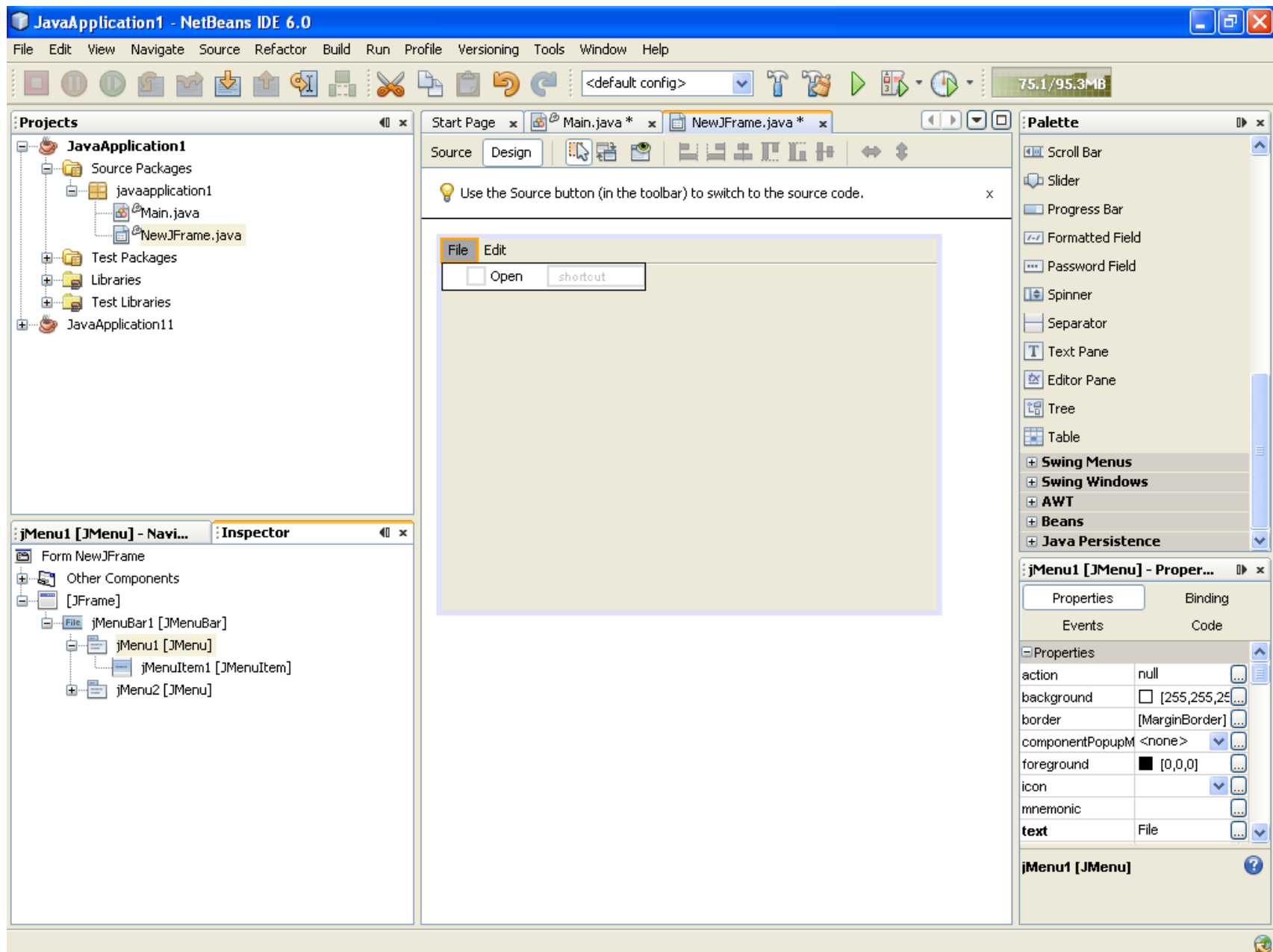


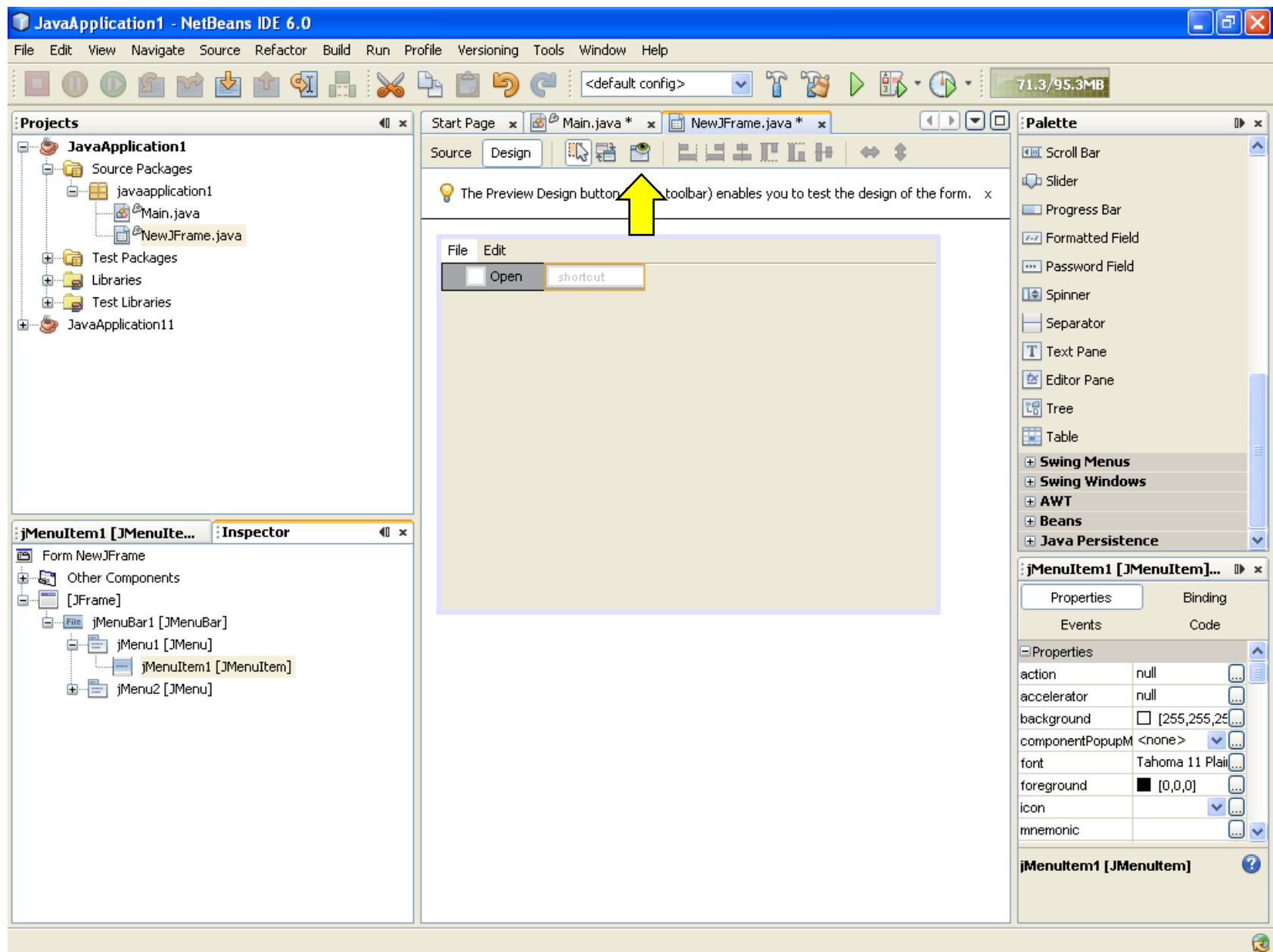
Add Menu

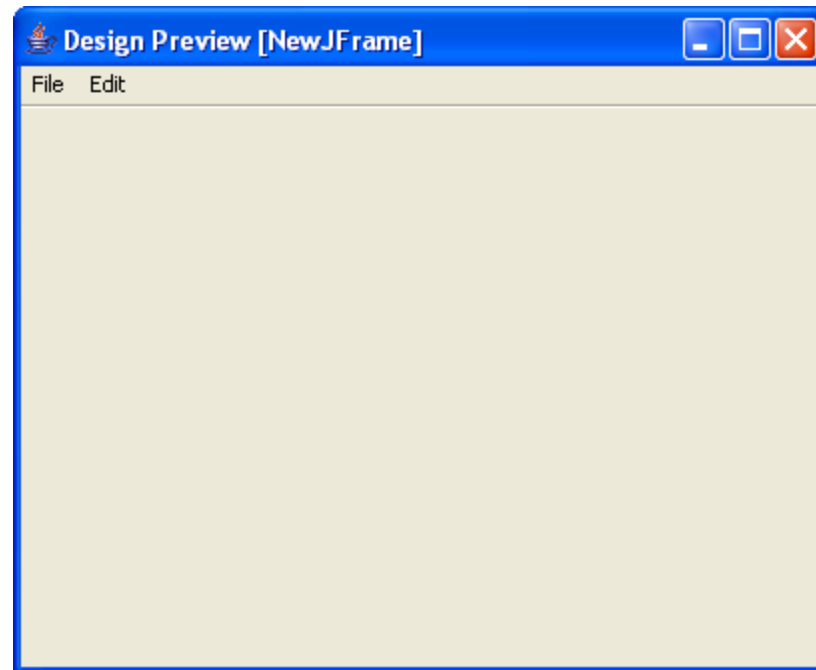


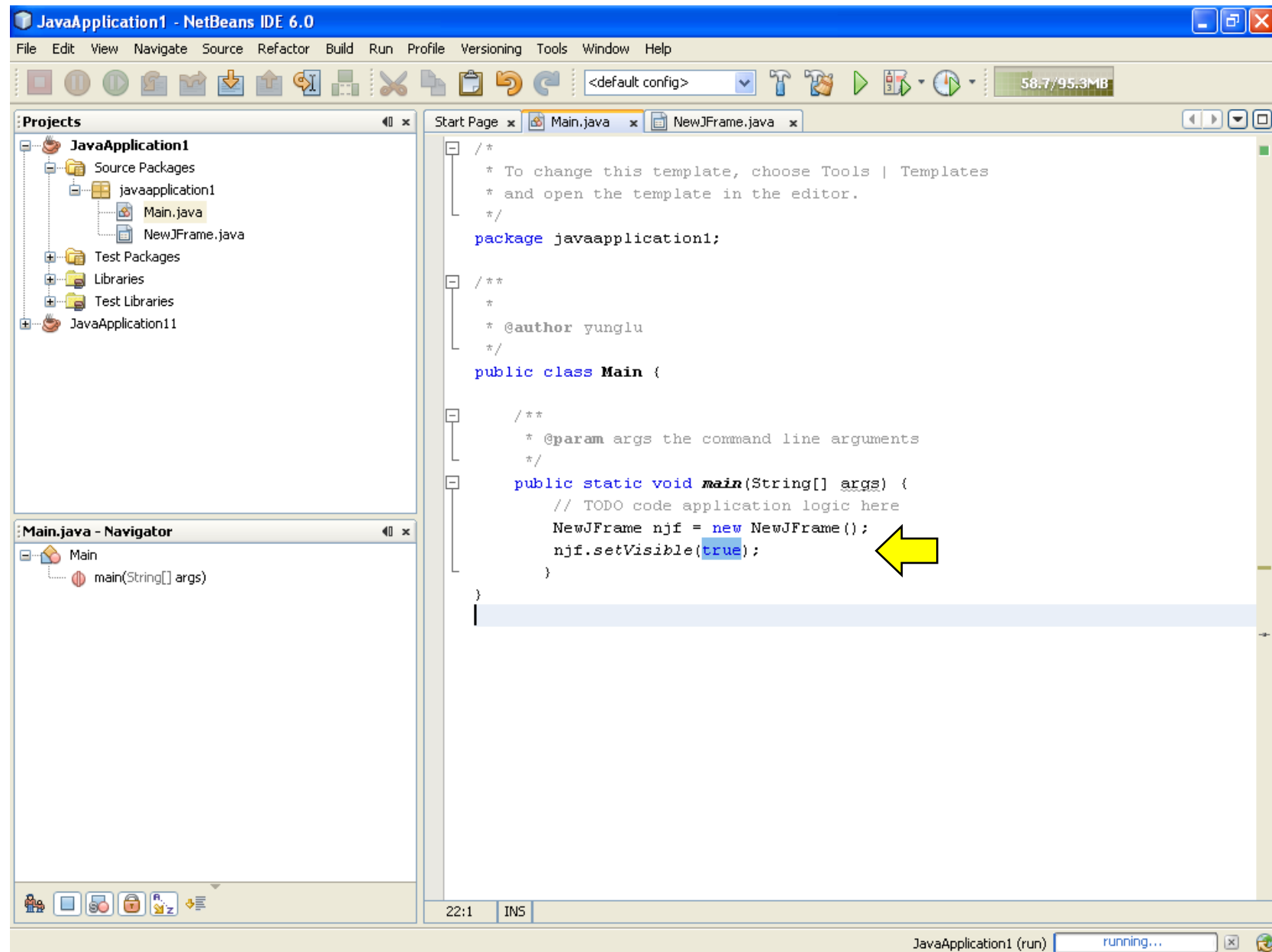




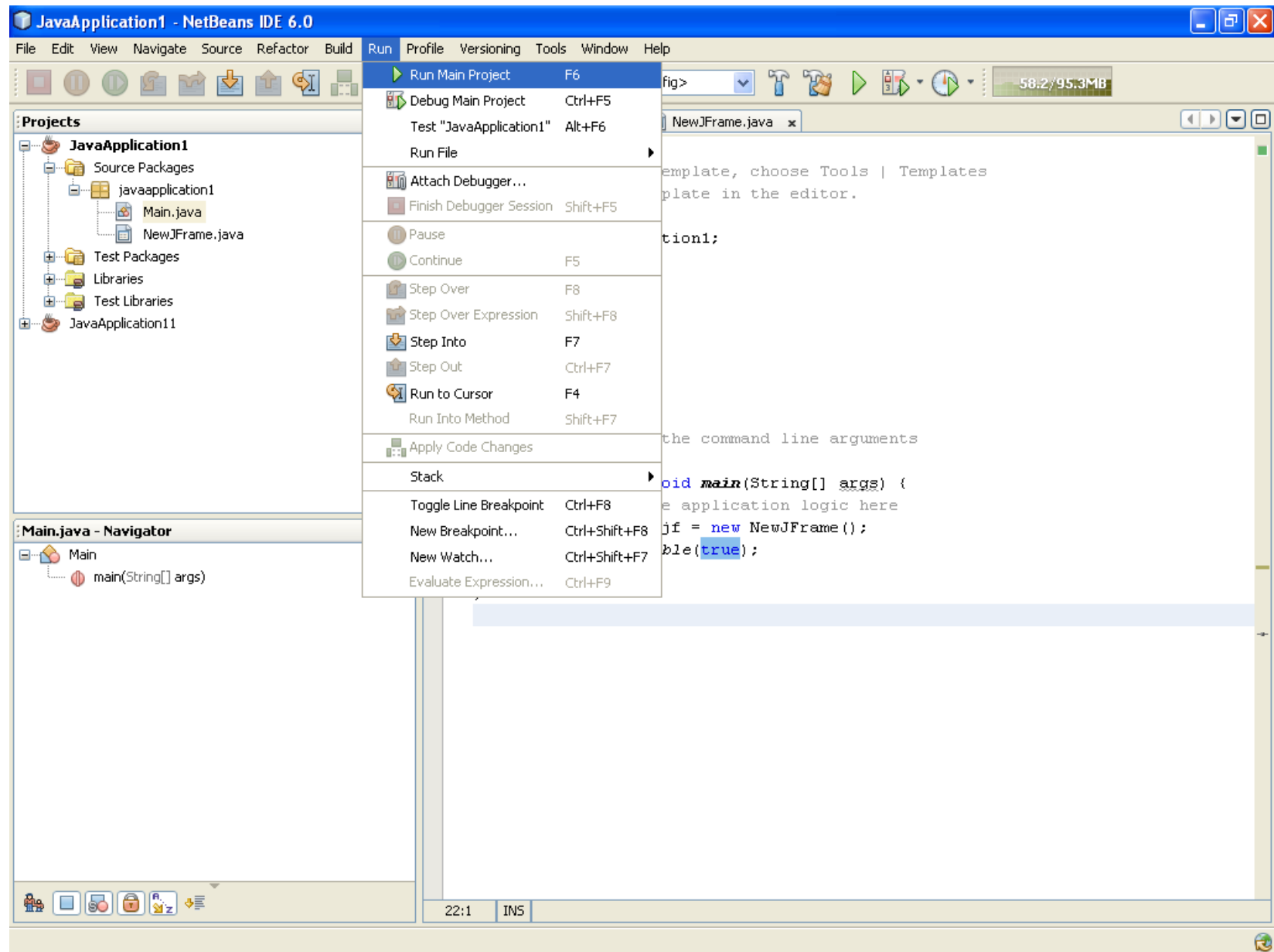


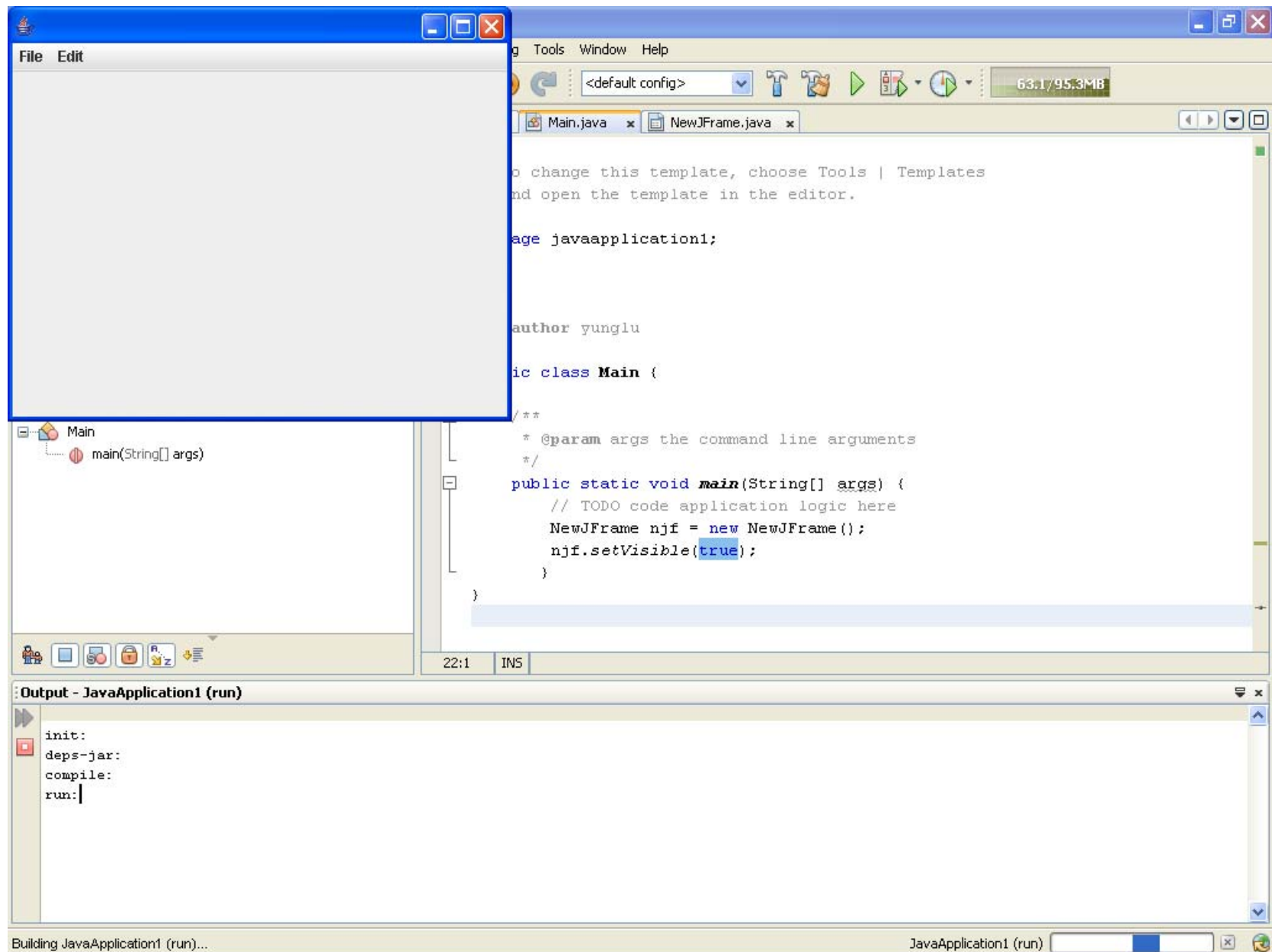




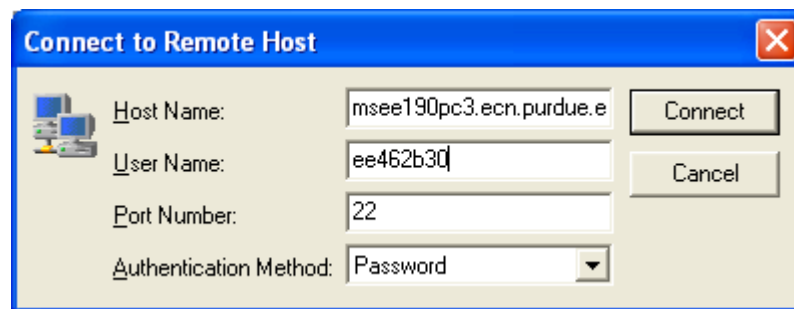


Run the Program

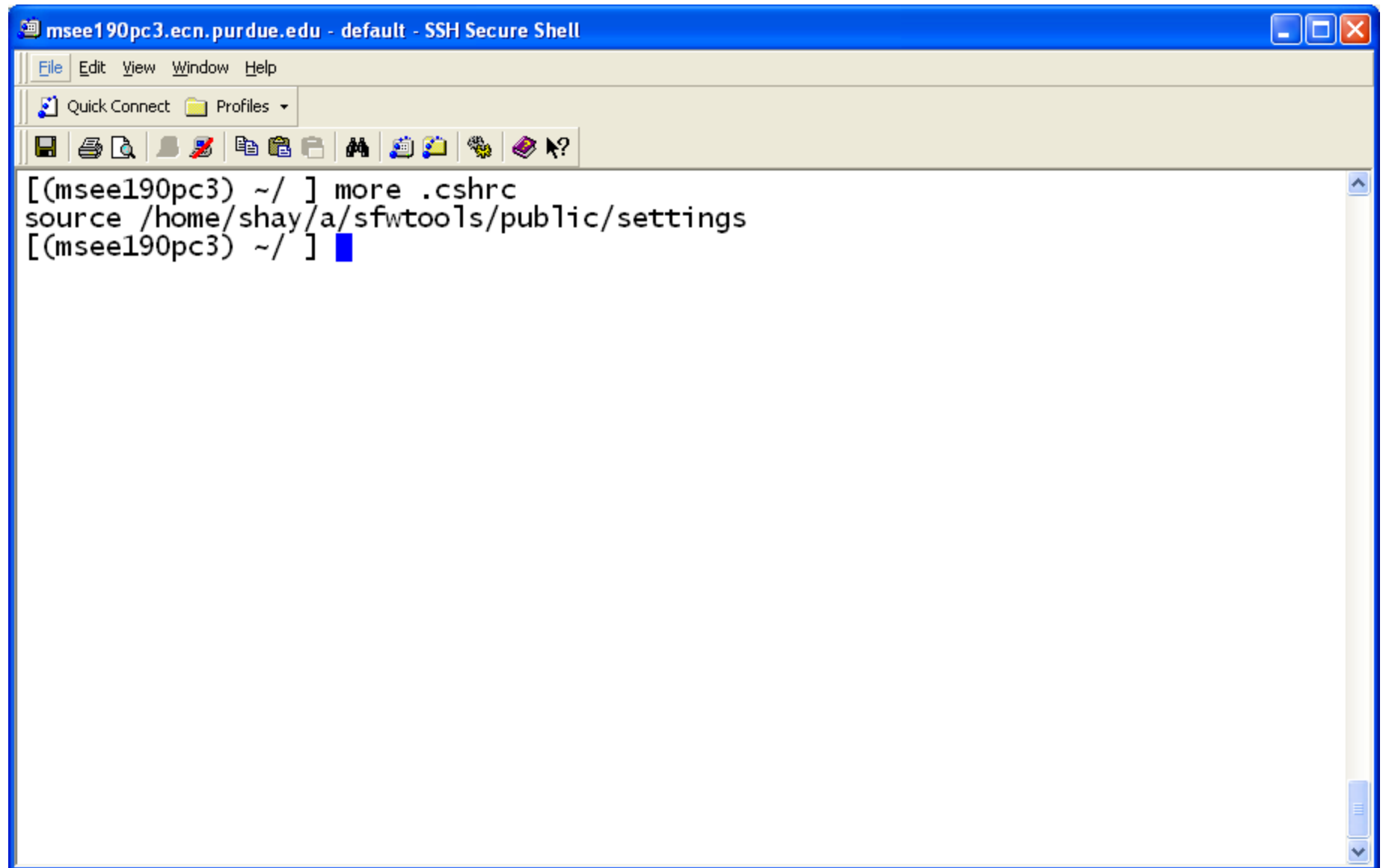




Version Control



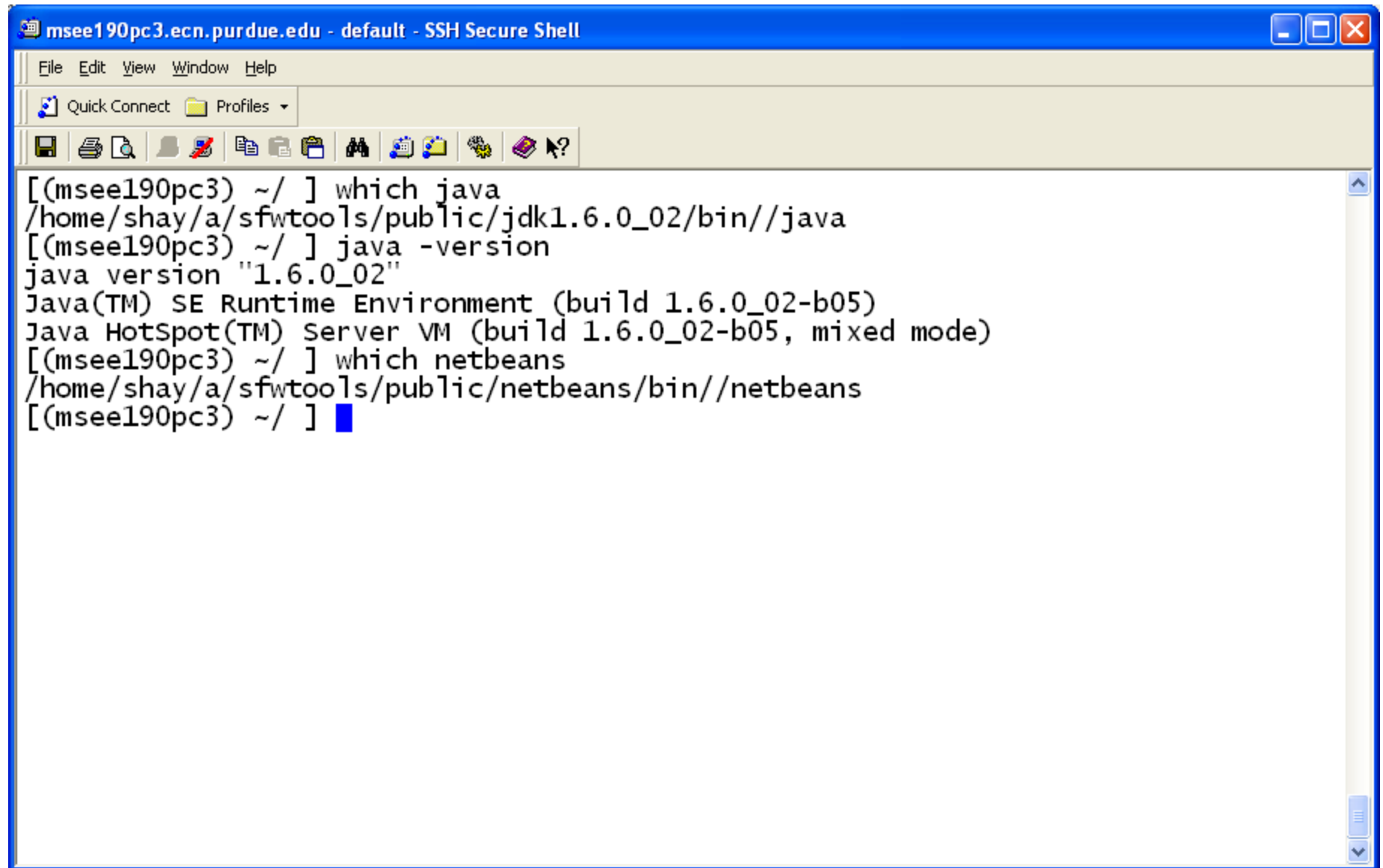
```
[ee462b30@msee190pc3 ~]$ set prompt="[(%m) %~/ ] "  
[(msee190pc3) ~/ ] mkdir projects  
[(msee190pc3) ~/ ] cd projects/  
[(msee190pc3) ~/projects/ ] mkdir CVSR00T  
[(msee190pc3) ~/projects/ ]
```



The image shows a screenshot of an SSH Secure Shell window. The title bar reads "msee190pc3.ecn.purdue.edu - default - SSH Secure Shell". The window has a menu bar with "File", "Edit", "View", "Window", and "Help". Below the menu bar is a toolbar with icons for "Quick Connect" and "Profiles", followed by a series of standard file and application icons. The main area of the window is a terminal with the following text:

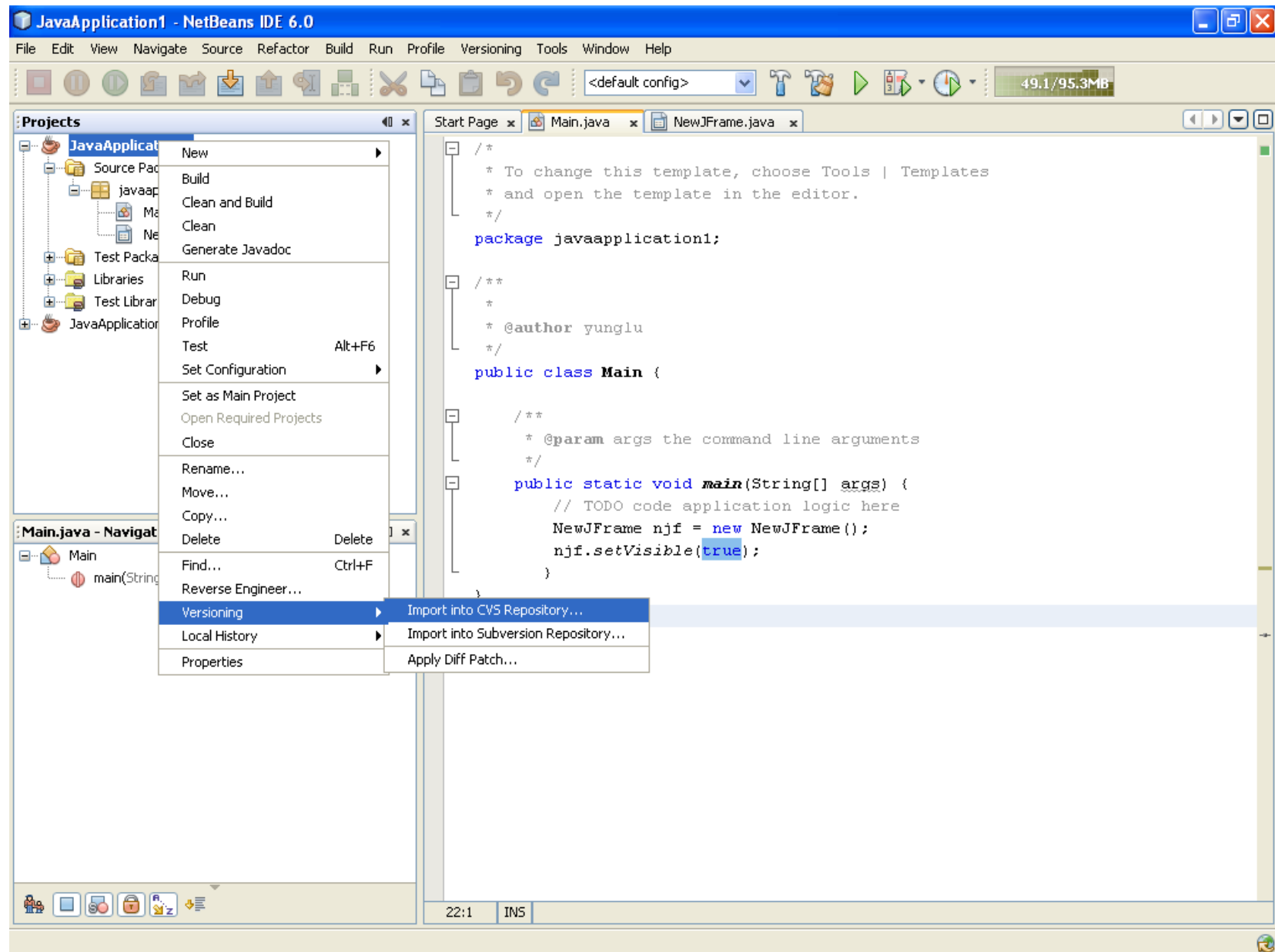
```
[(msee190pc3) ~/ ] more .cshrc  
source /home/shay/a/sfwtools/public/settings  
[(msee190pc3) ~/ ]
```

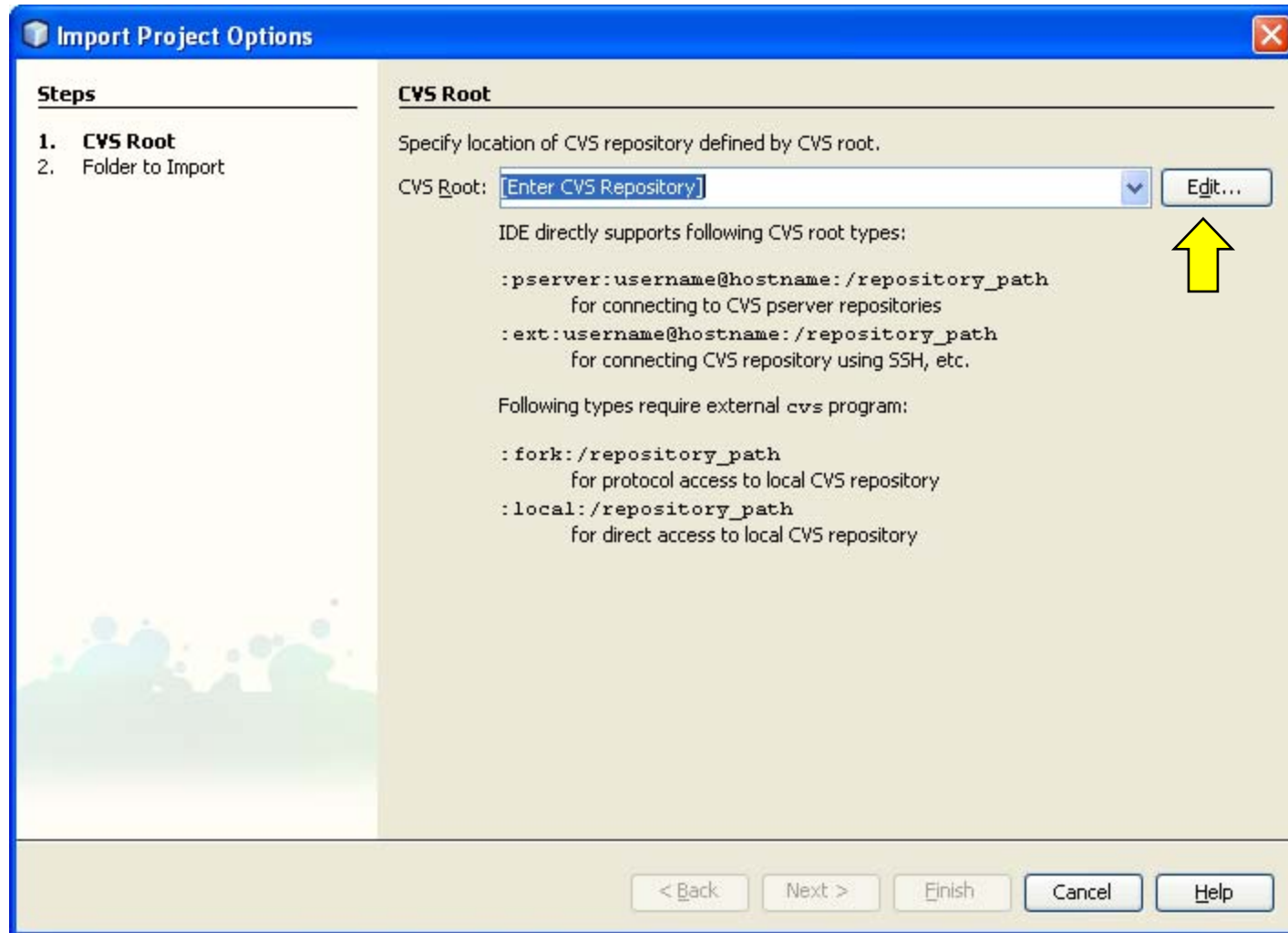
The terminal shows the user has run the command `more .cshrc` and then `source /home/shay/a/sfwtools/public/settings`. The prompt `[(msee190pc3) ~/ ]` is shown at the end of each line. A blue cursor is visible at the end of the second line.

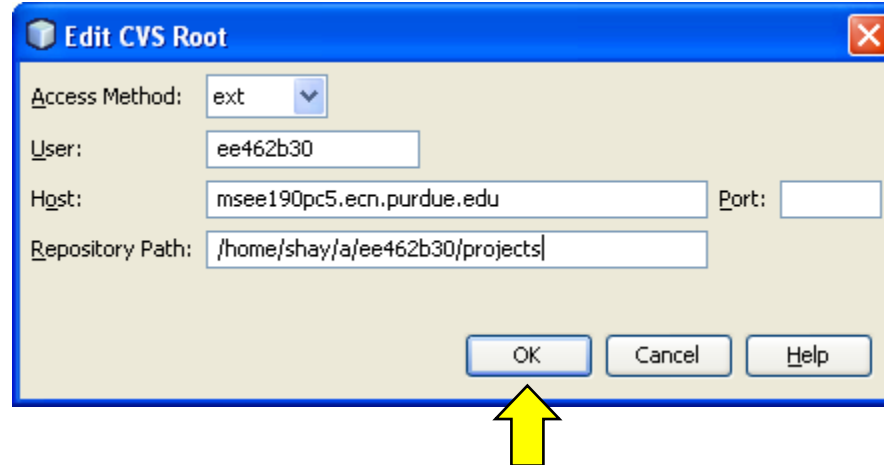


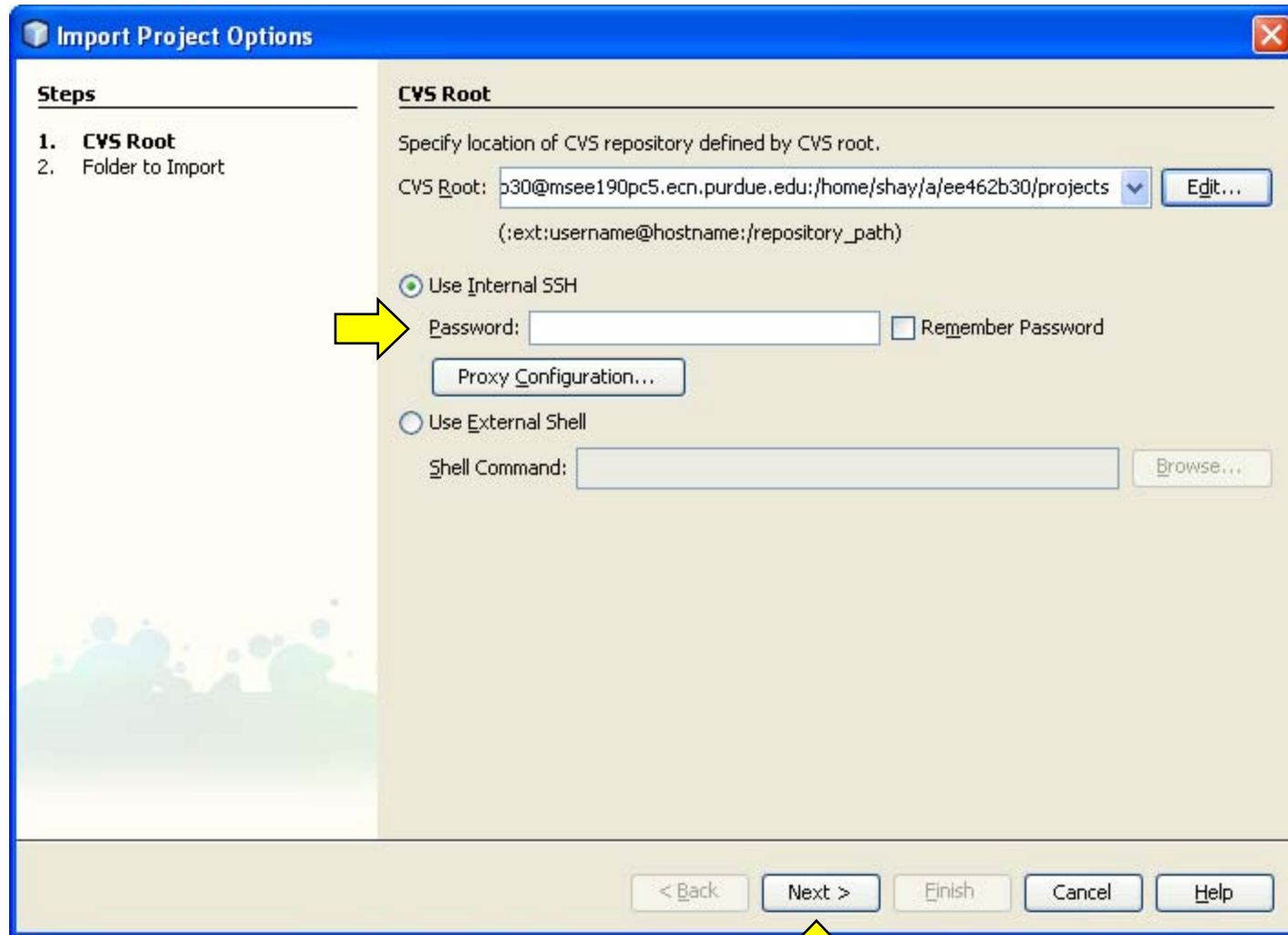
The image shows a terminal window titled "msee190pc3.ecn.purdue.edu - default - SSH Secure Shell". The window has a menu bar with "File", "Edit", "View", "Window", and "Help". Below the menu bar is a toolbar with icons for "Quick Connect" and "Profiles", followed by a series of standard file and application icons. The terminal text shows the following commands and output:

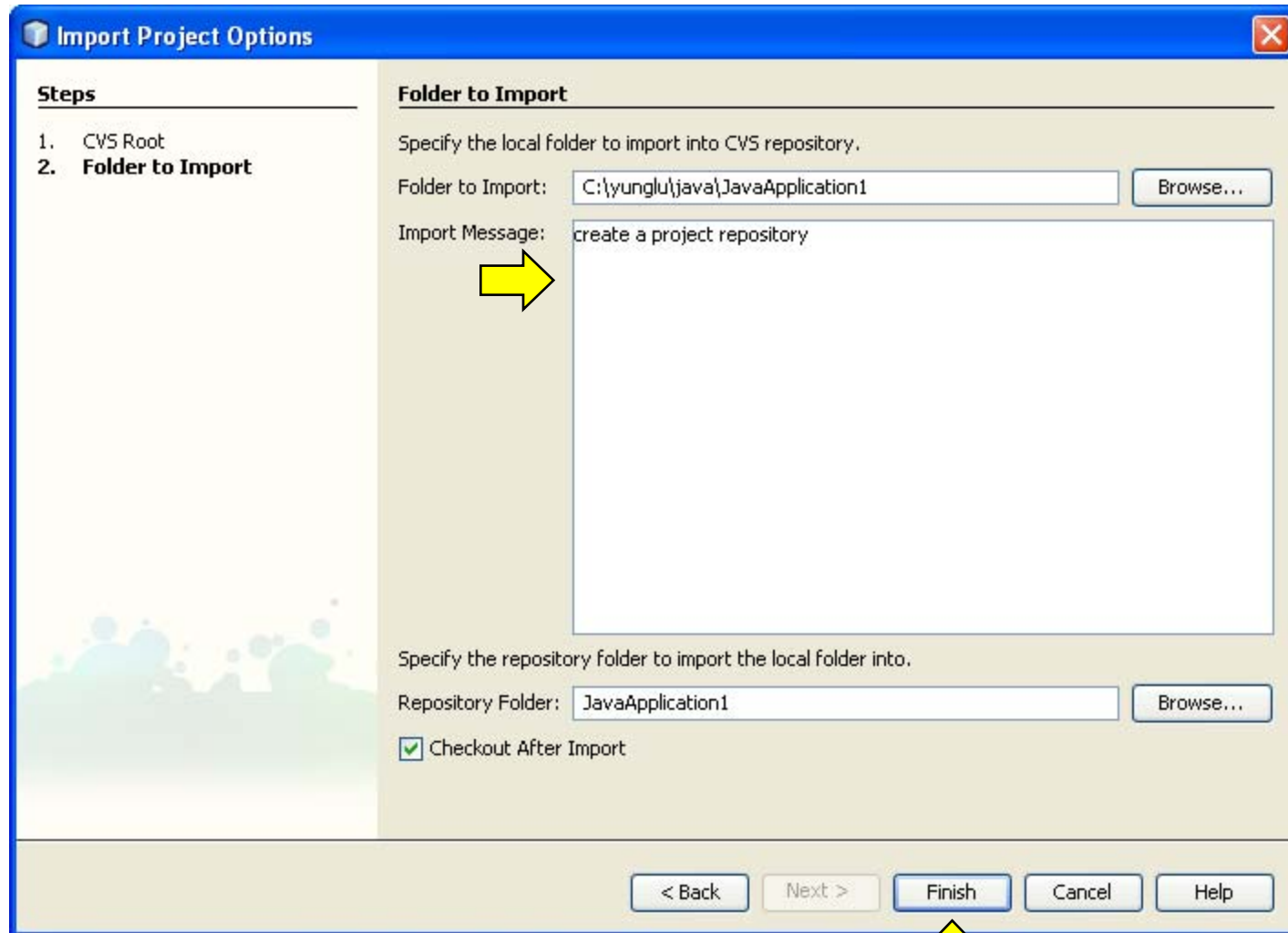
```
[(msee190pc3) ~/ ] which java
/home/shay/a/sfwtools/public/jdk1.6.0_02/bin//java
[(msee190pc3) ~/ ] java -version
java version "1.6.0_02"
Java(TM) SE Runtime Environment (build 1.6.0_02-b05)
Java HotSpot(TM) Server VM (build 1.6.0_02-b05, mixed mode)
[(msee190pc3) ~/ ] which netbeans
/home/shay/a/sfwtools/public/netbeans/bin//netbeans
[(msee190pc3) ~/ ] █
```

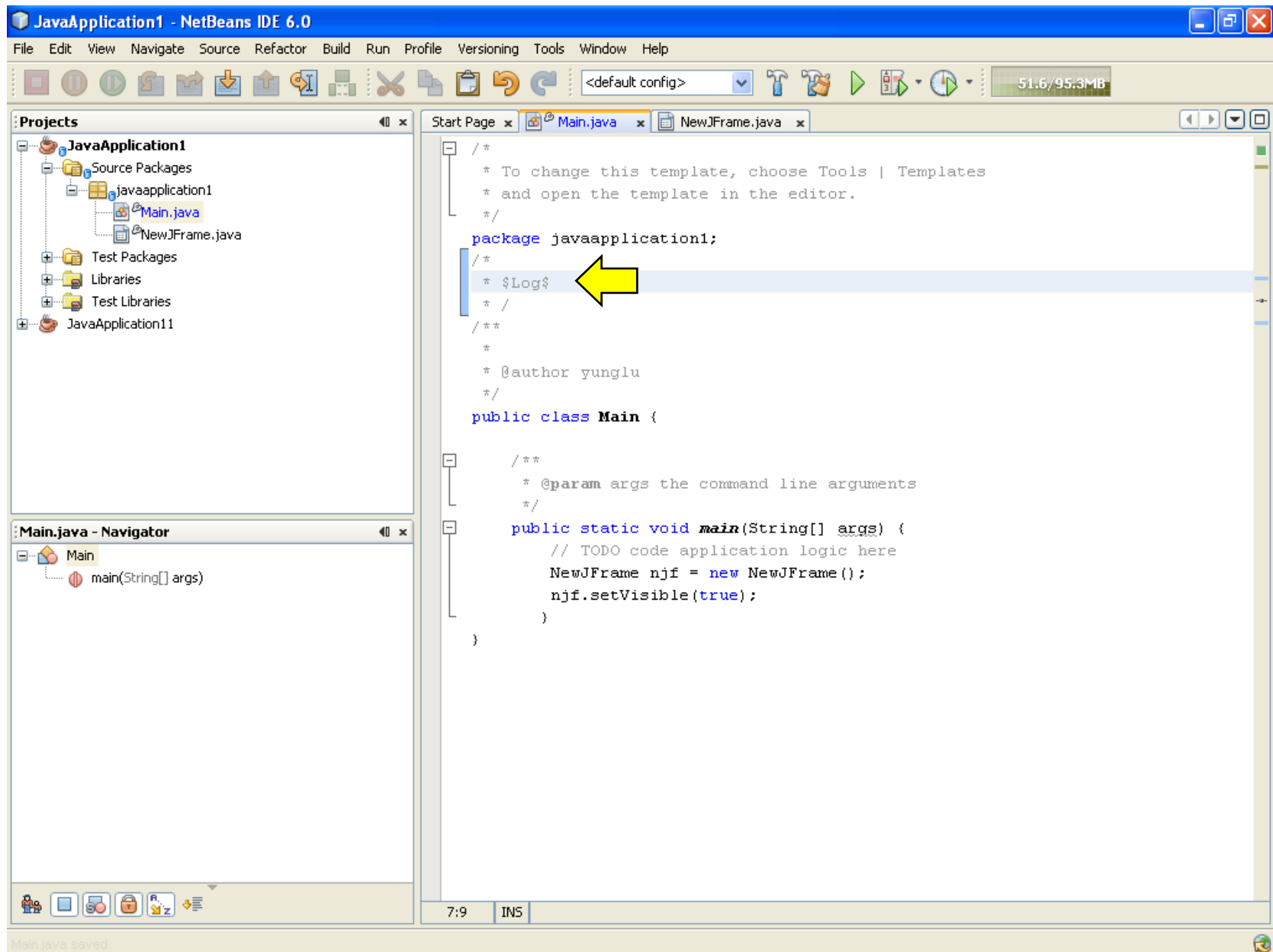



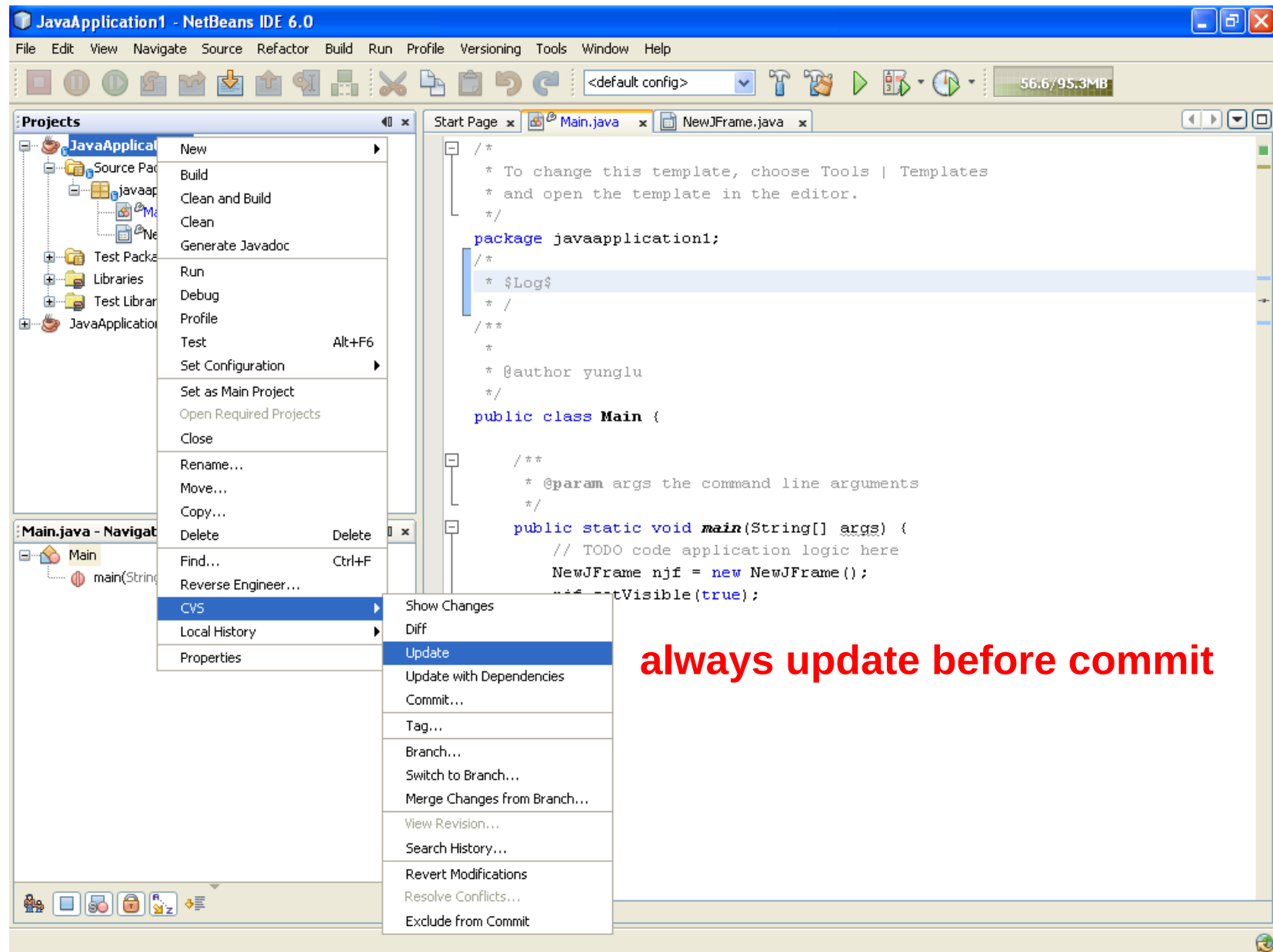


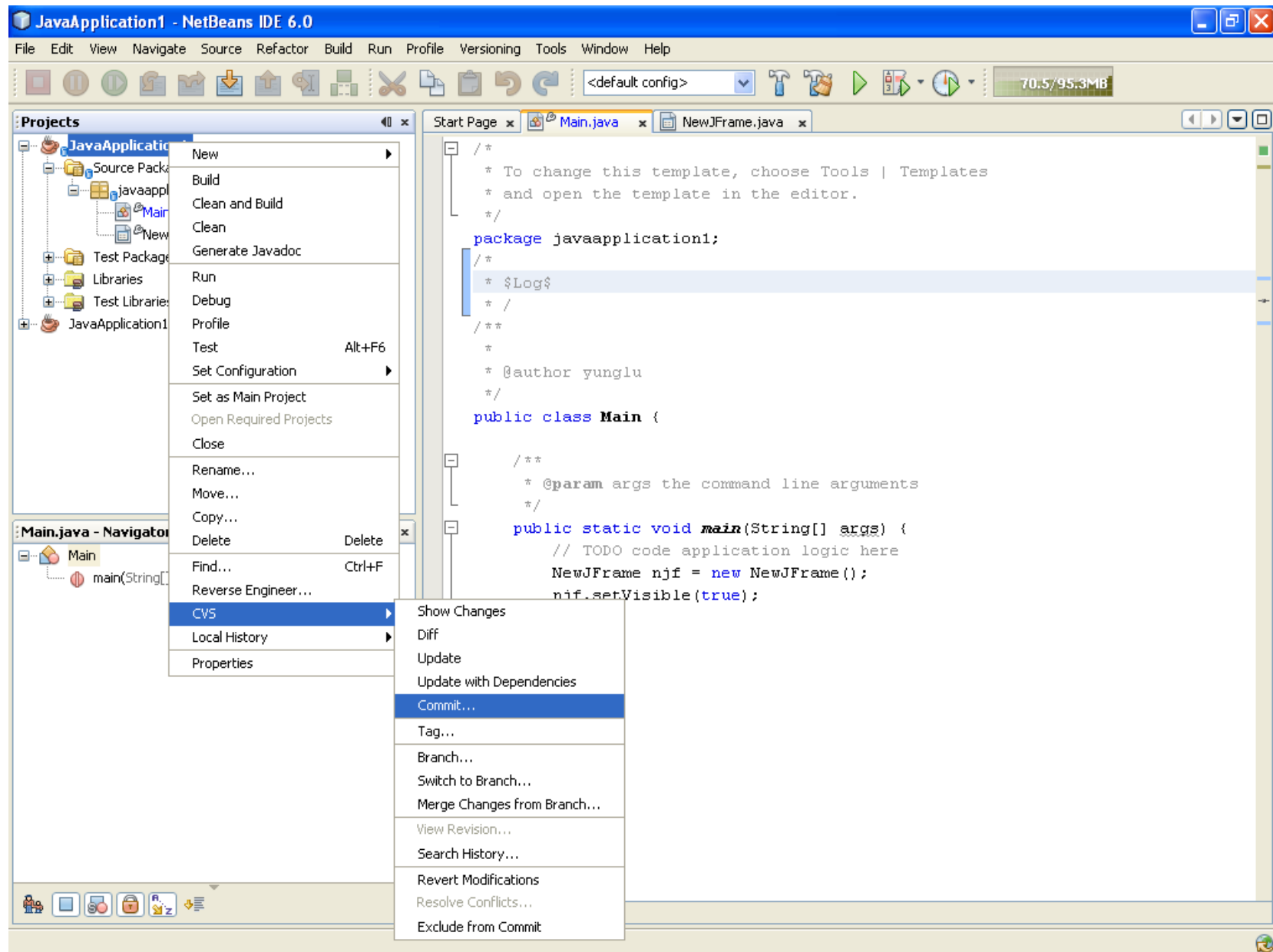


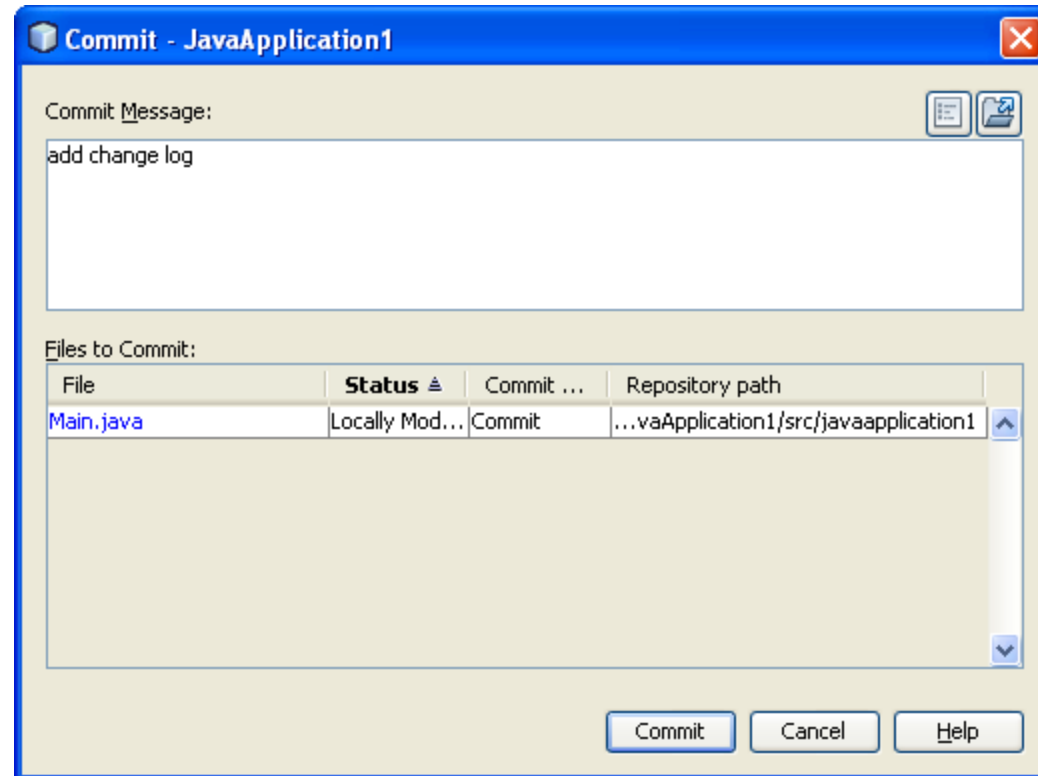


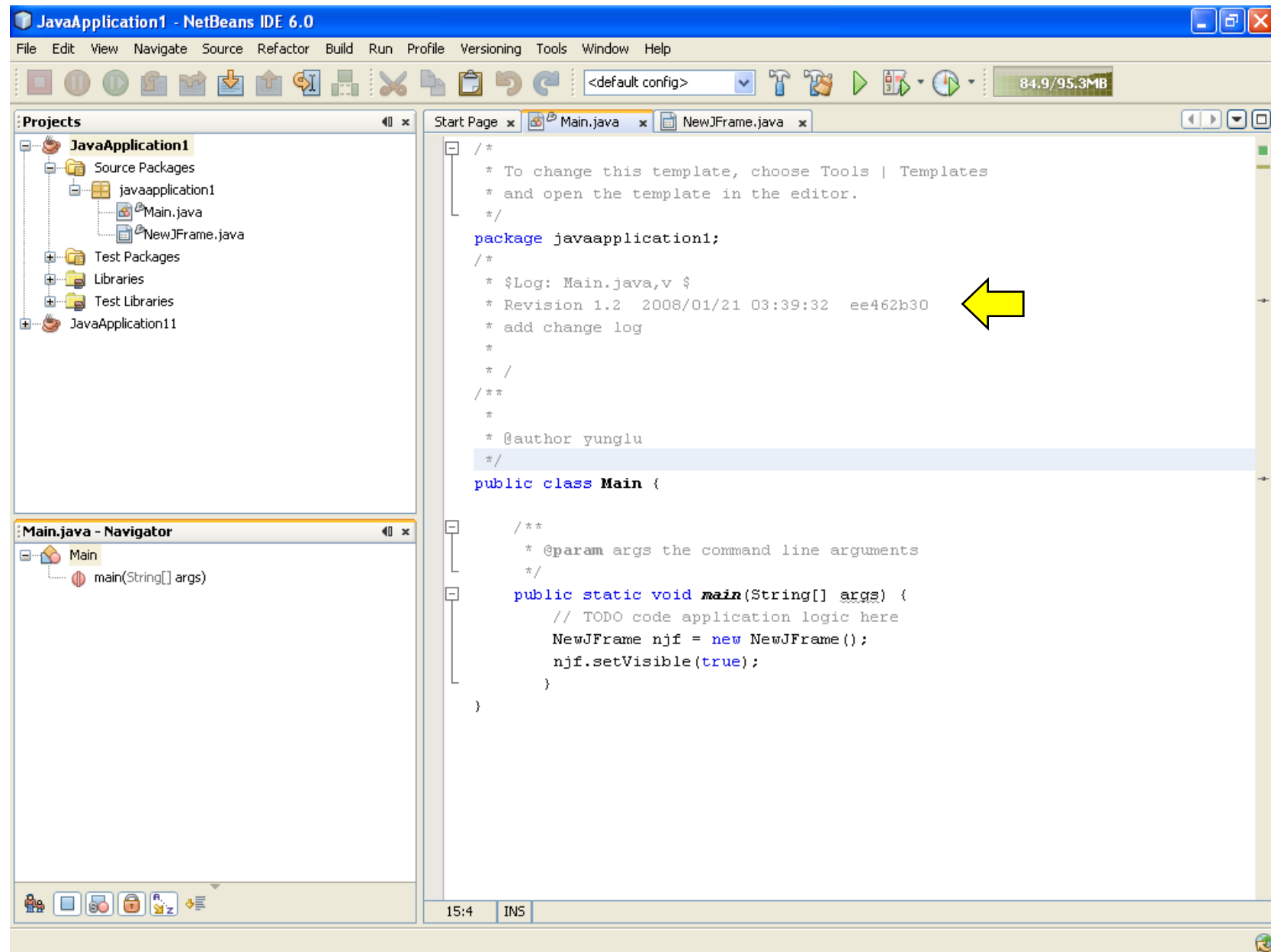


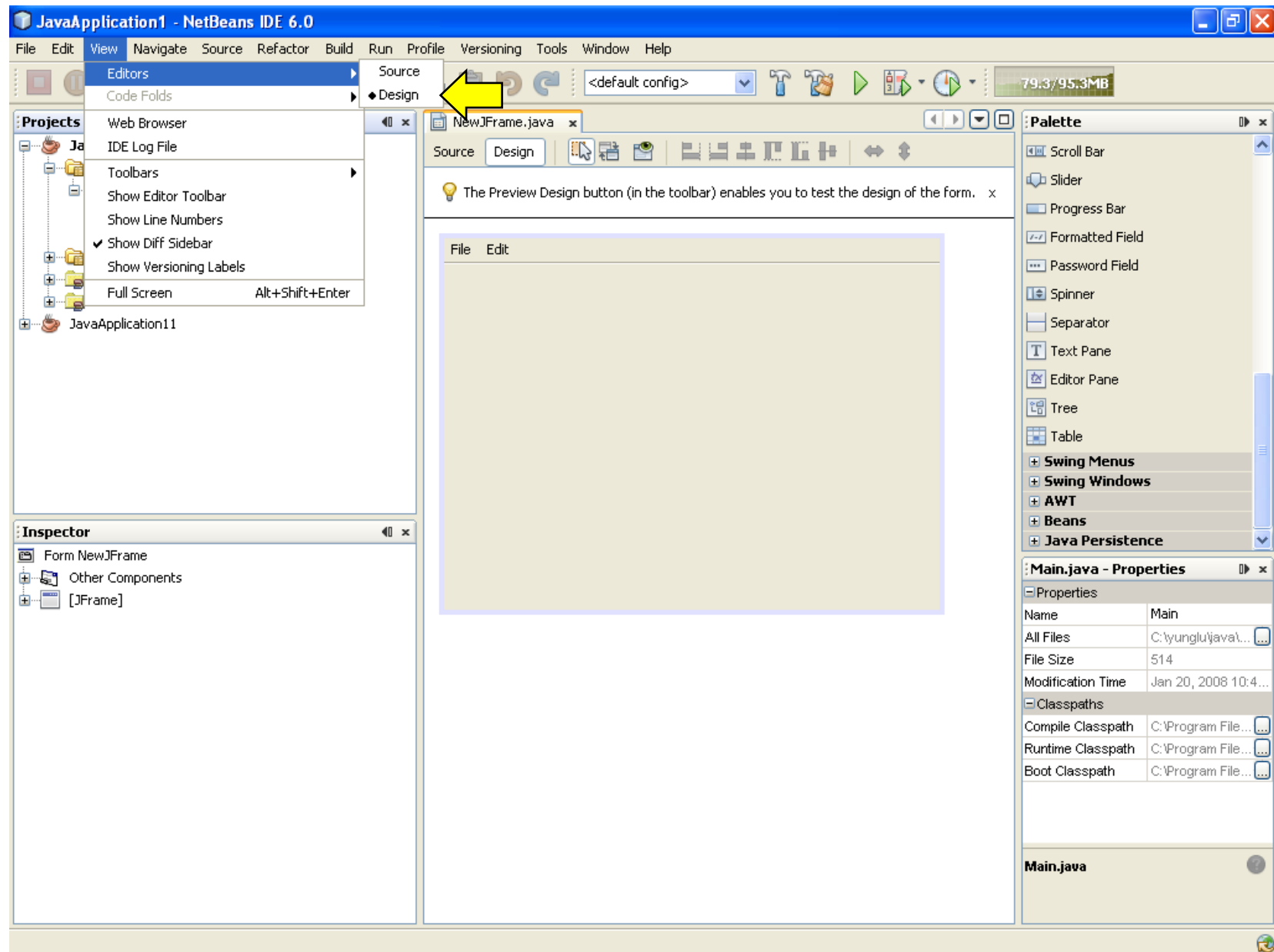




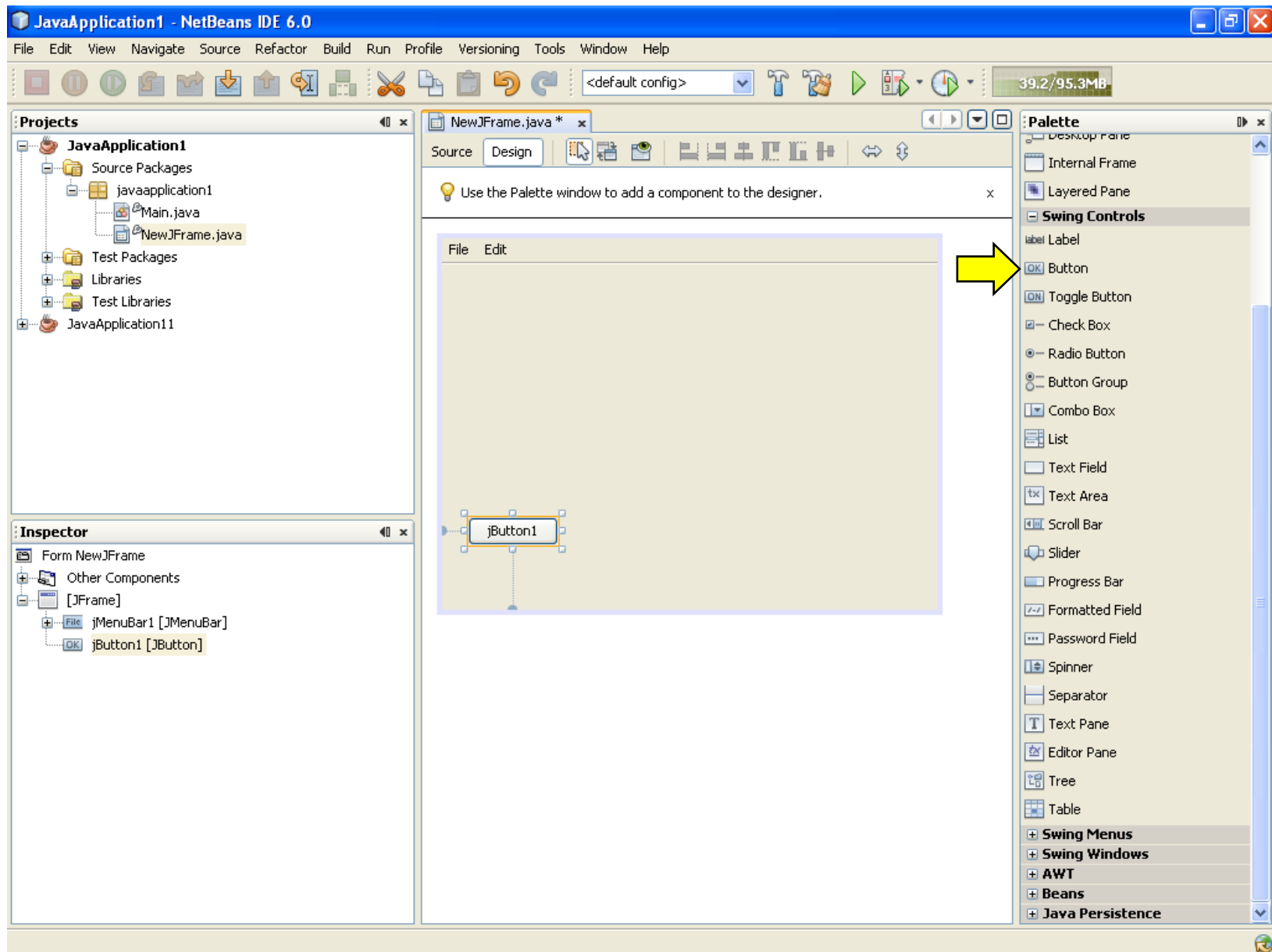


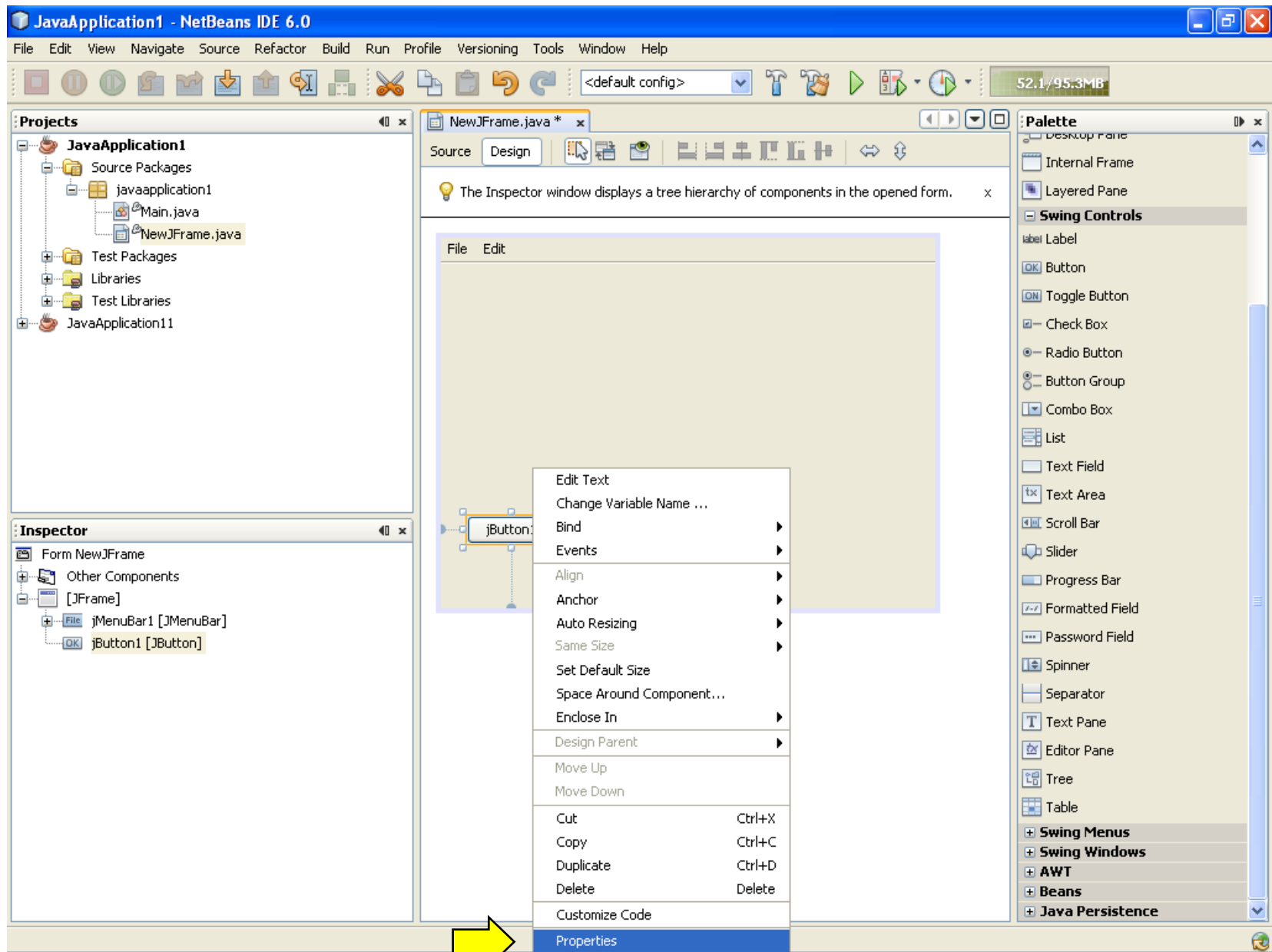


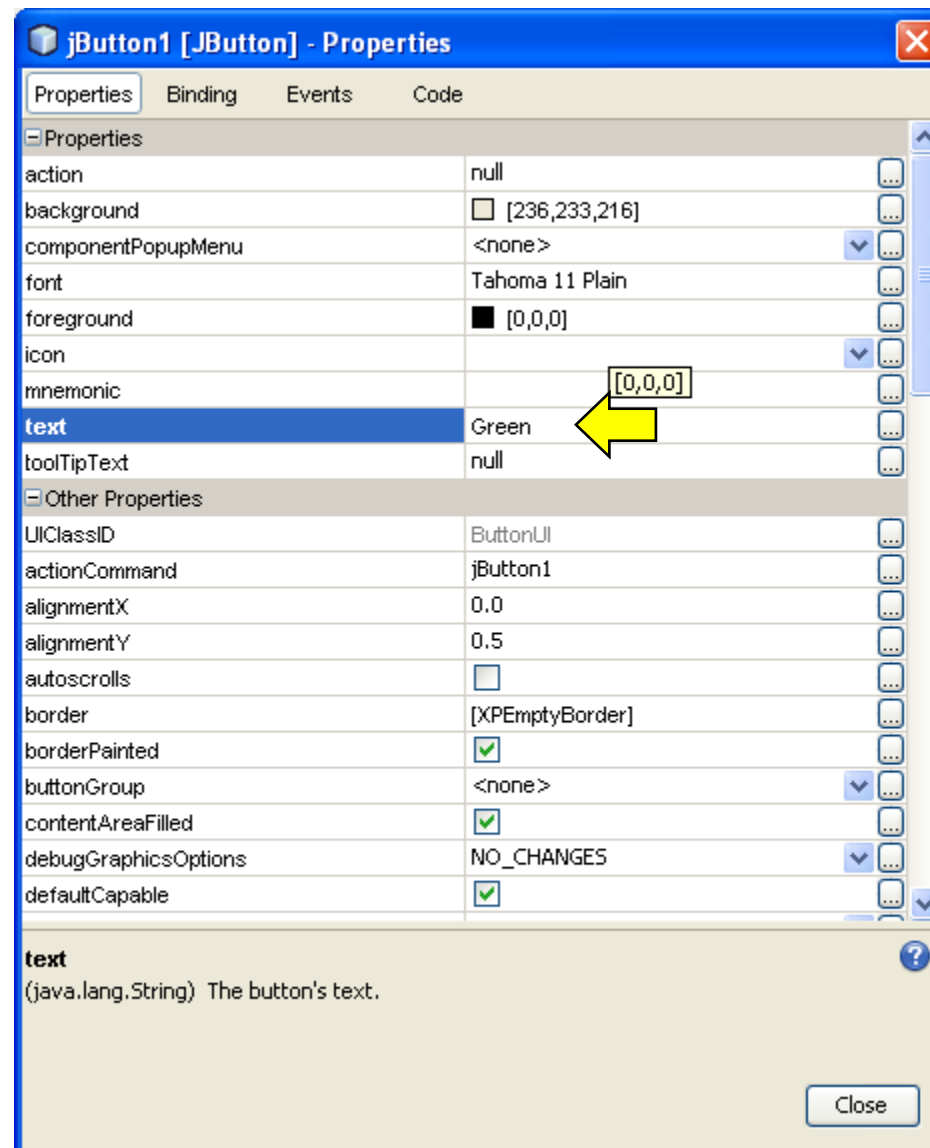


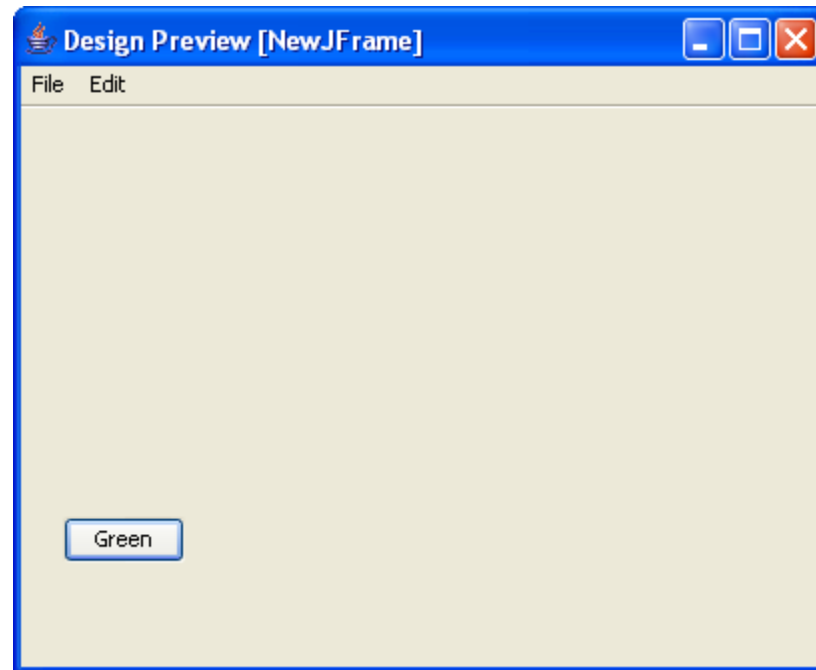


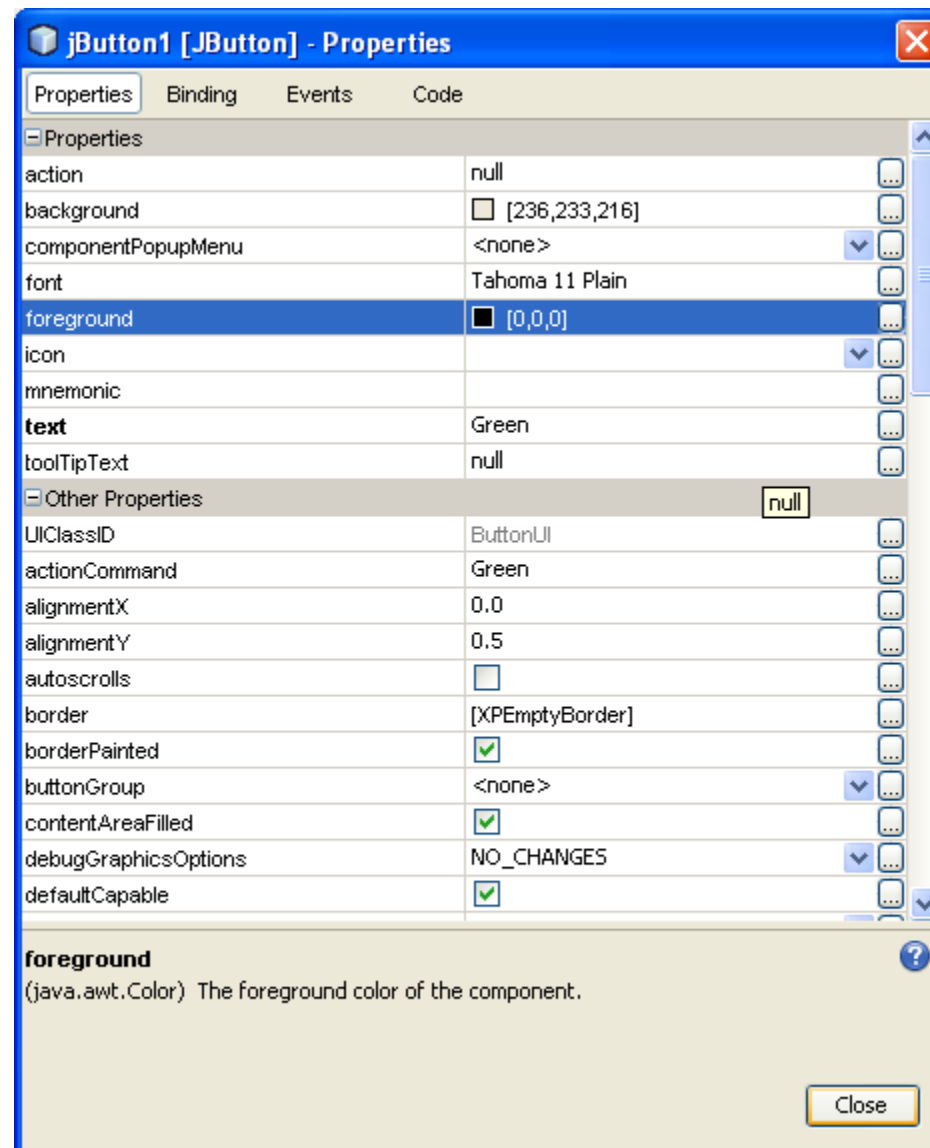
Add Button

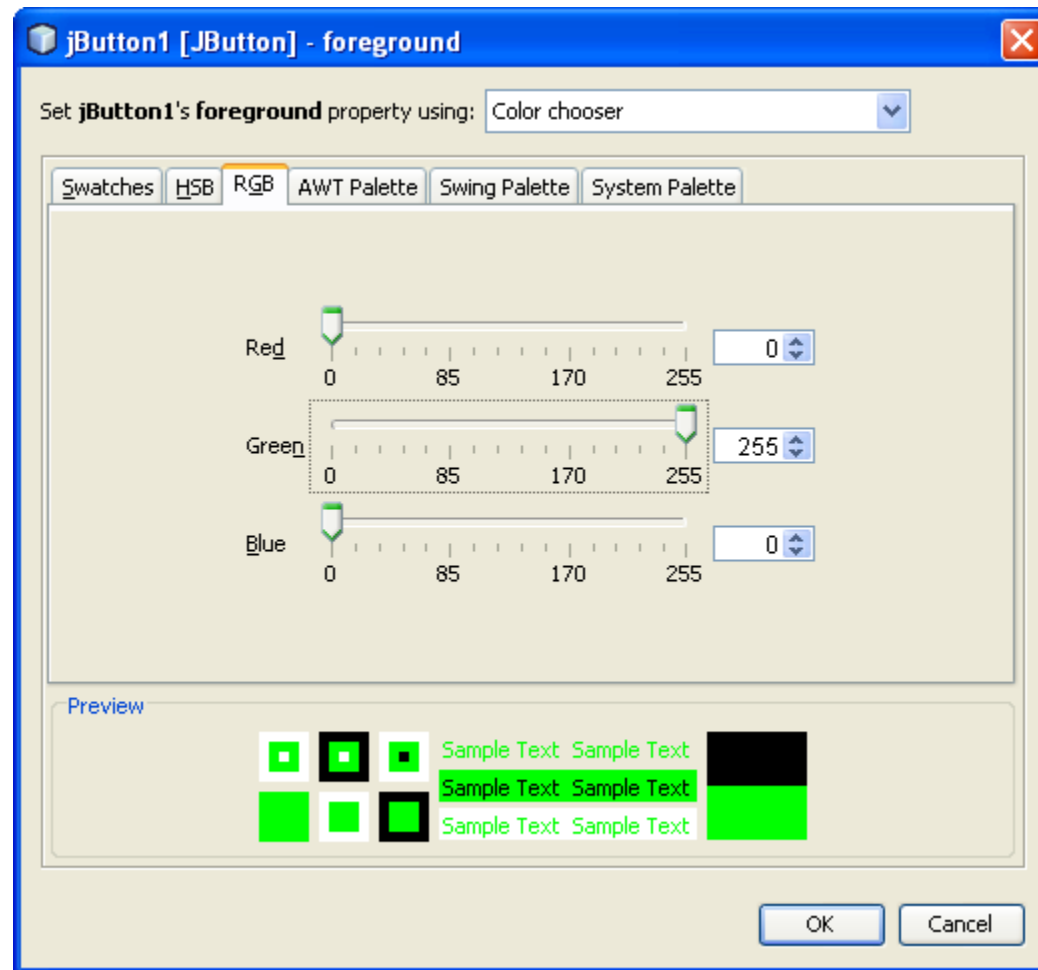


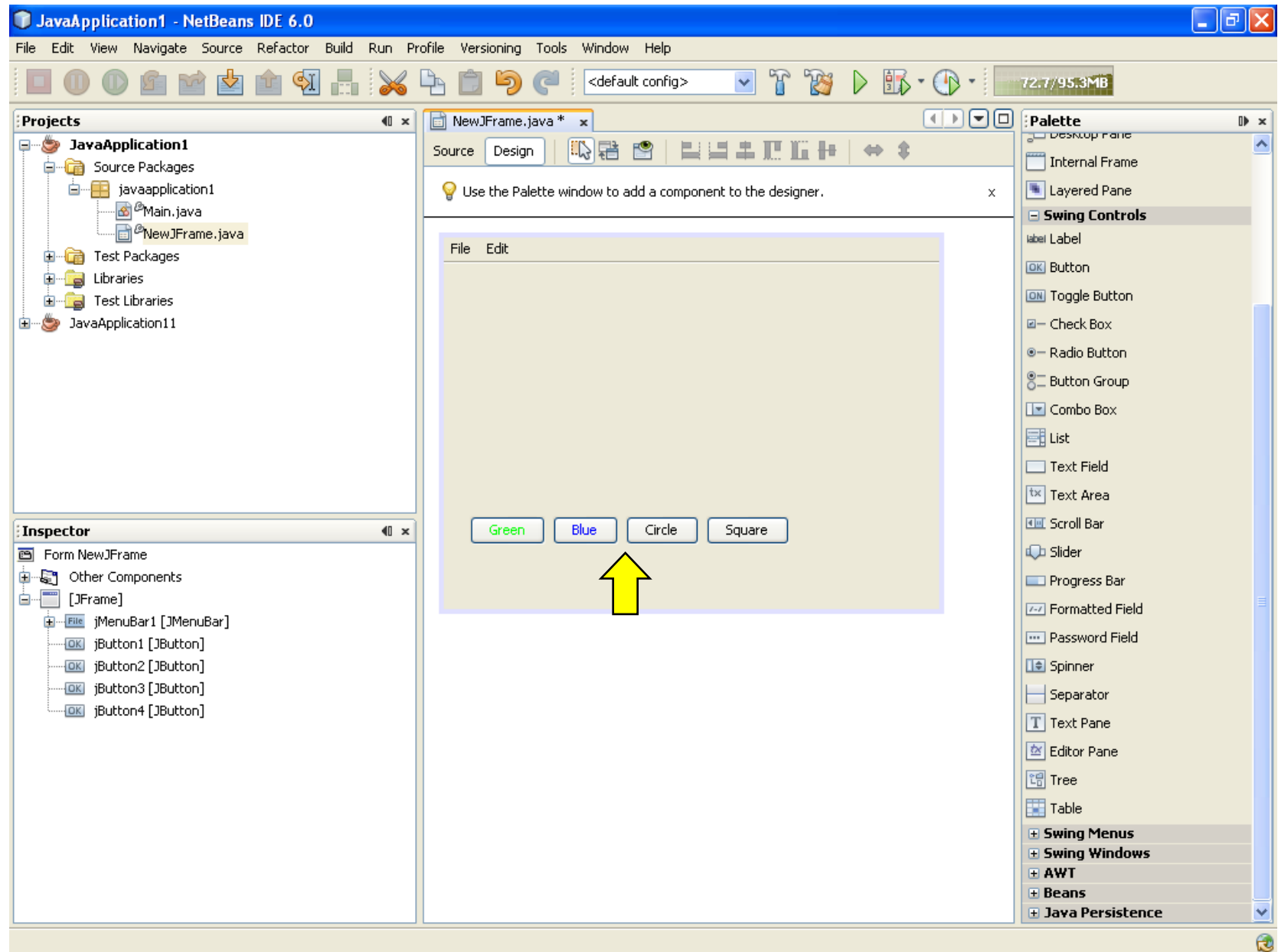


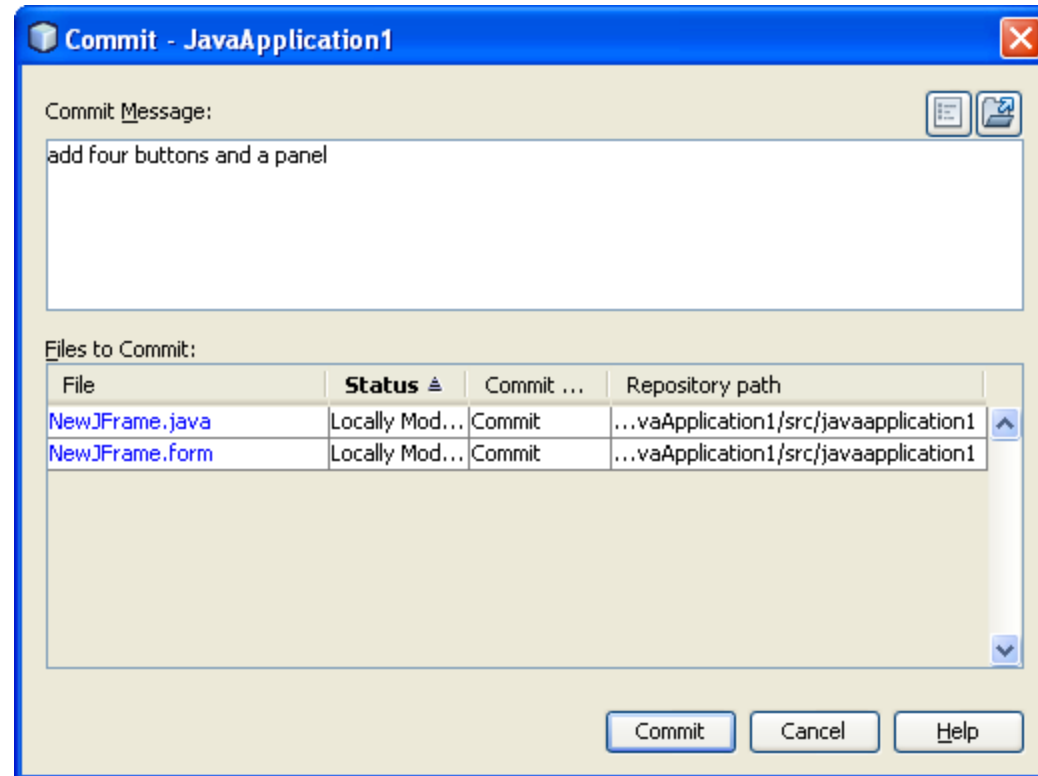




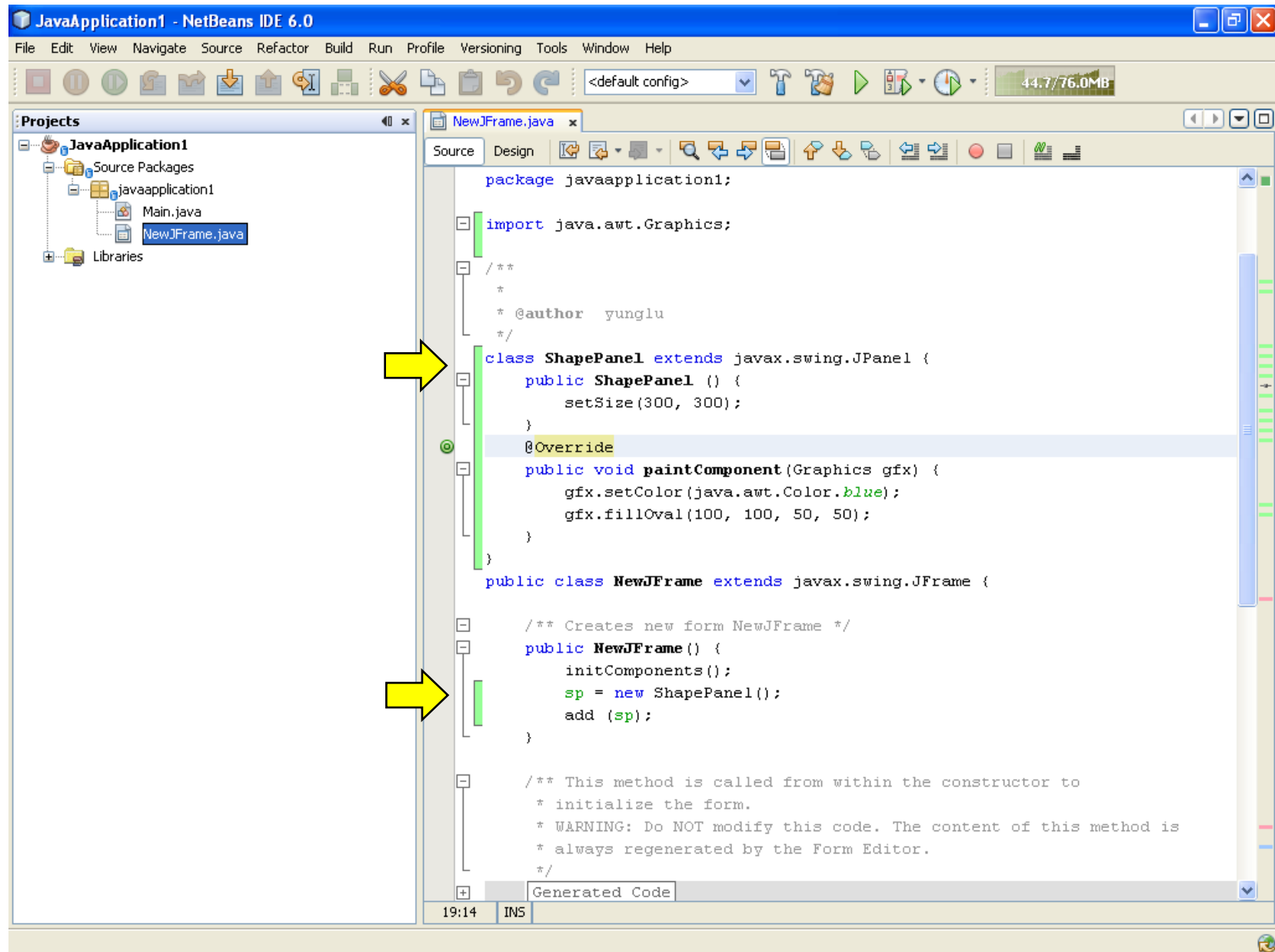


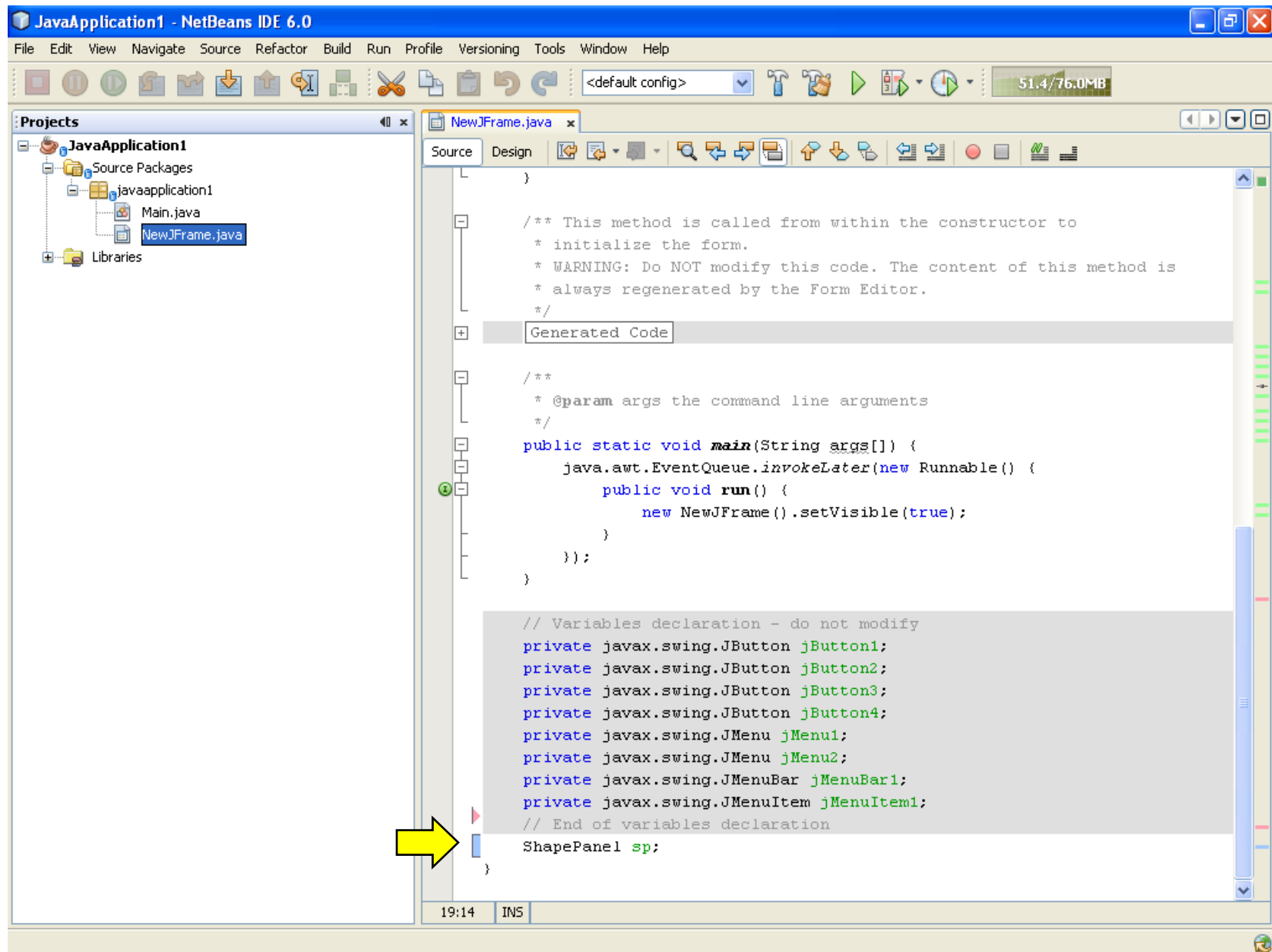


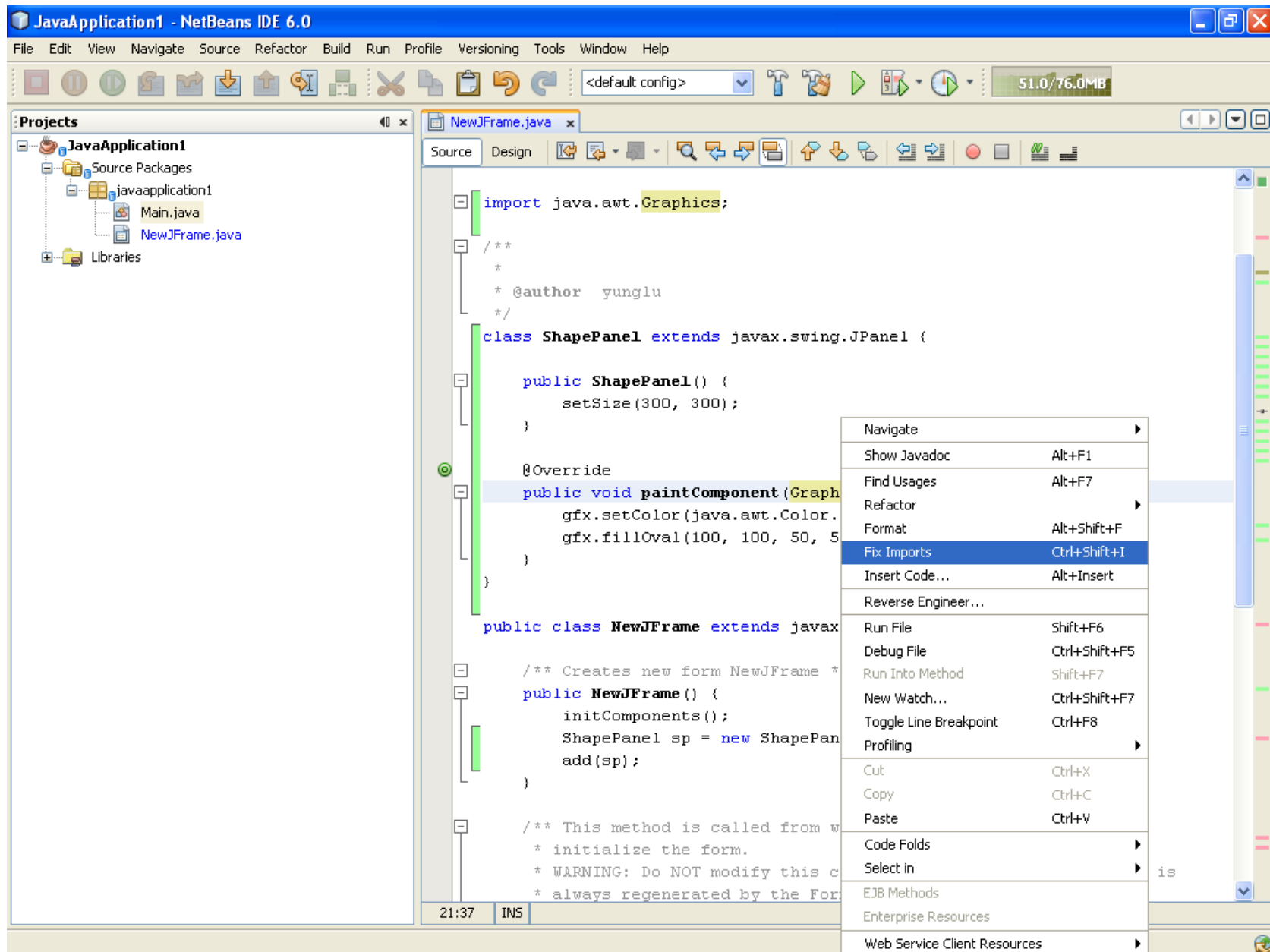


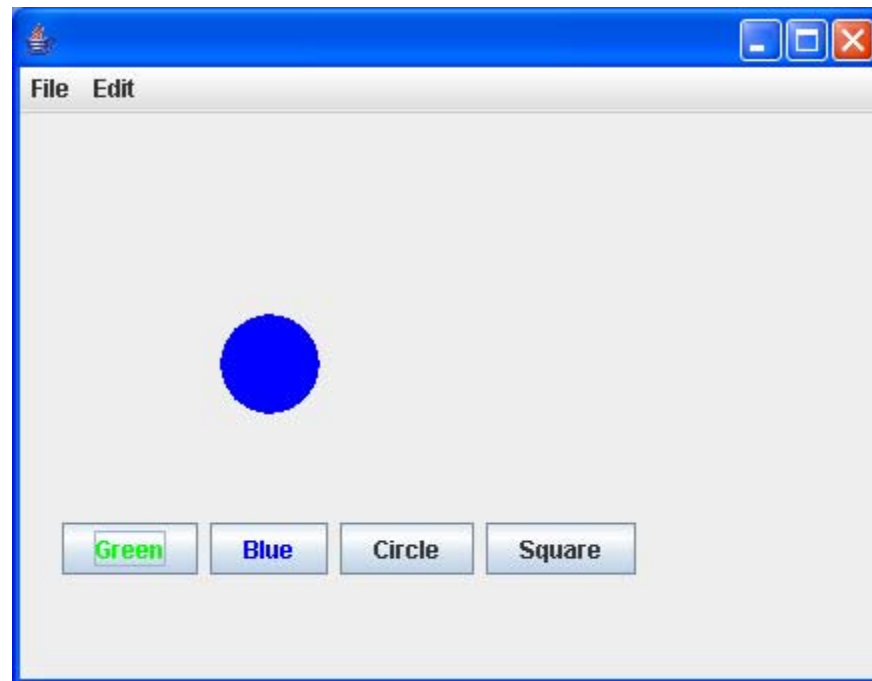


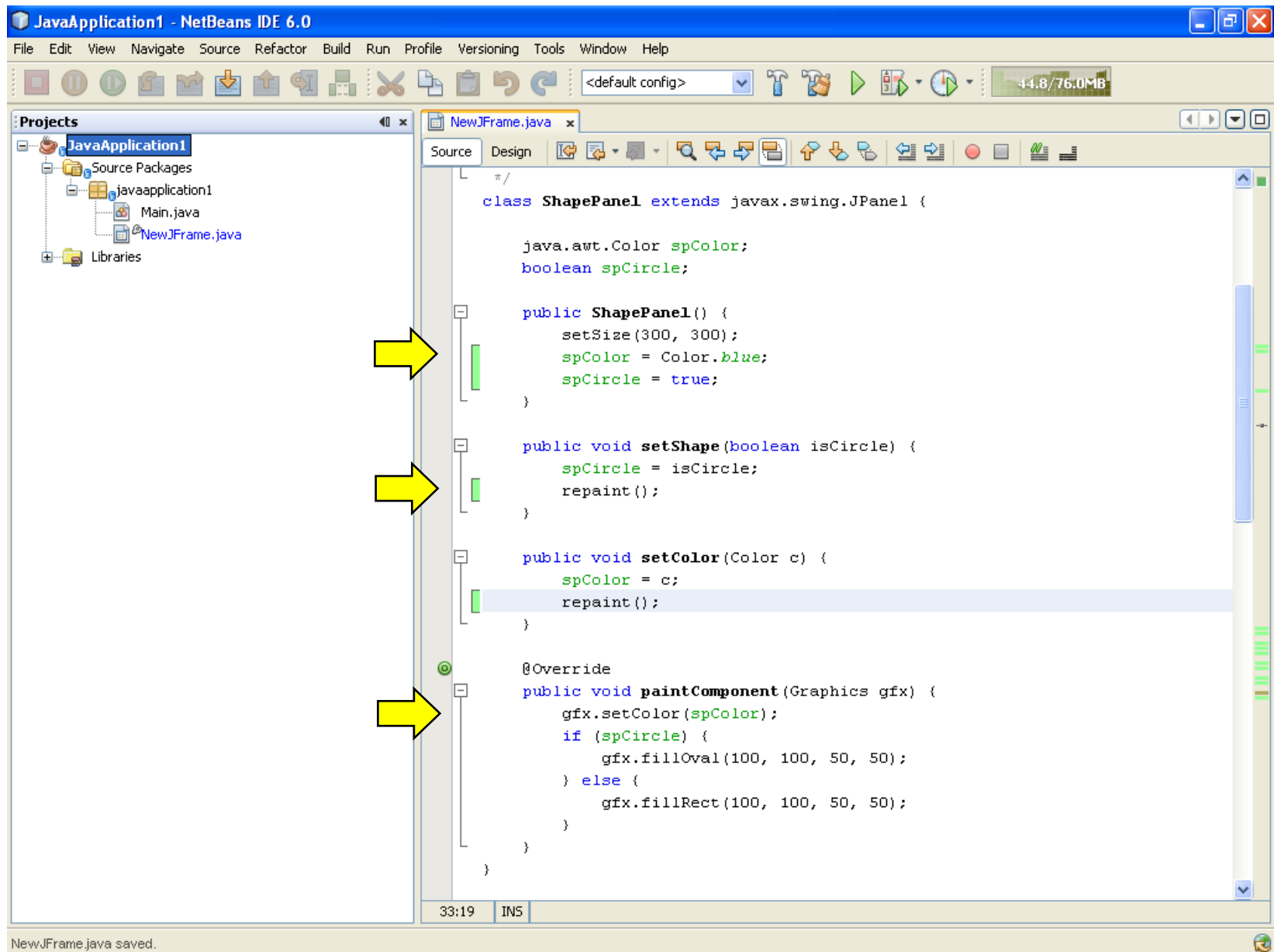
Create a Derived Class and Override paintComponent



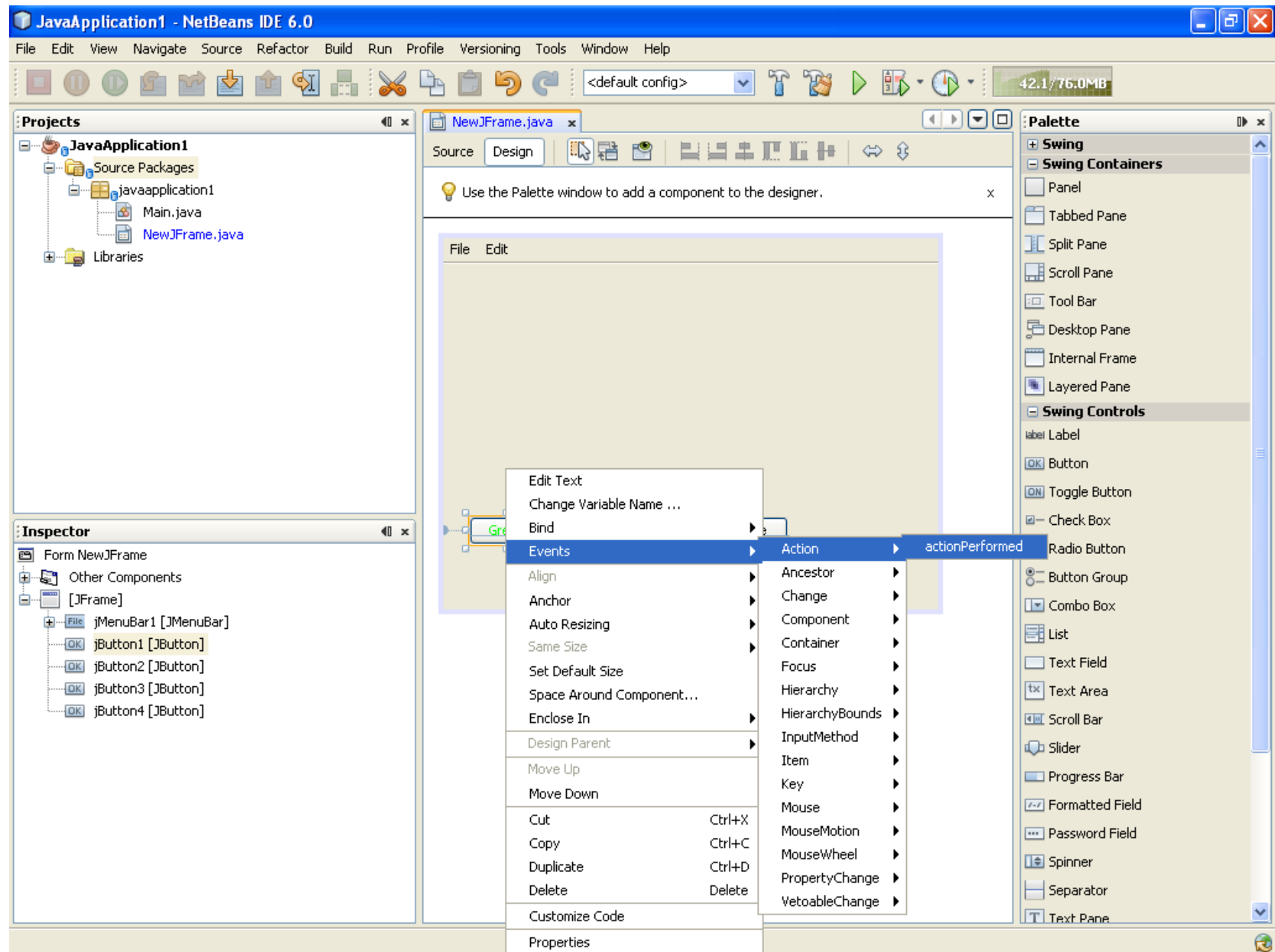


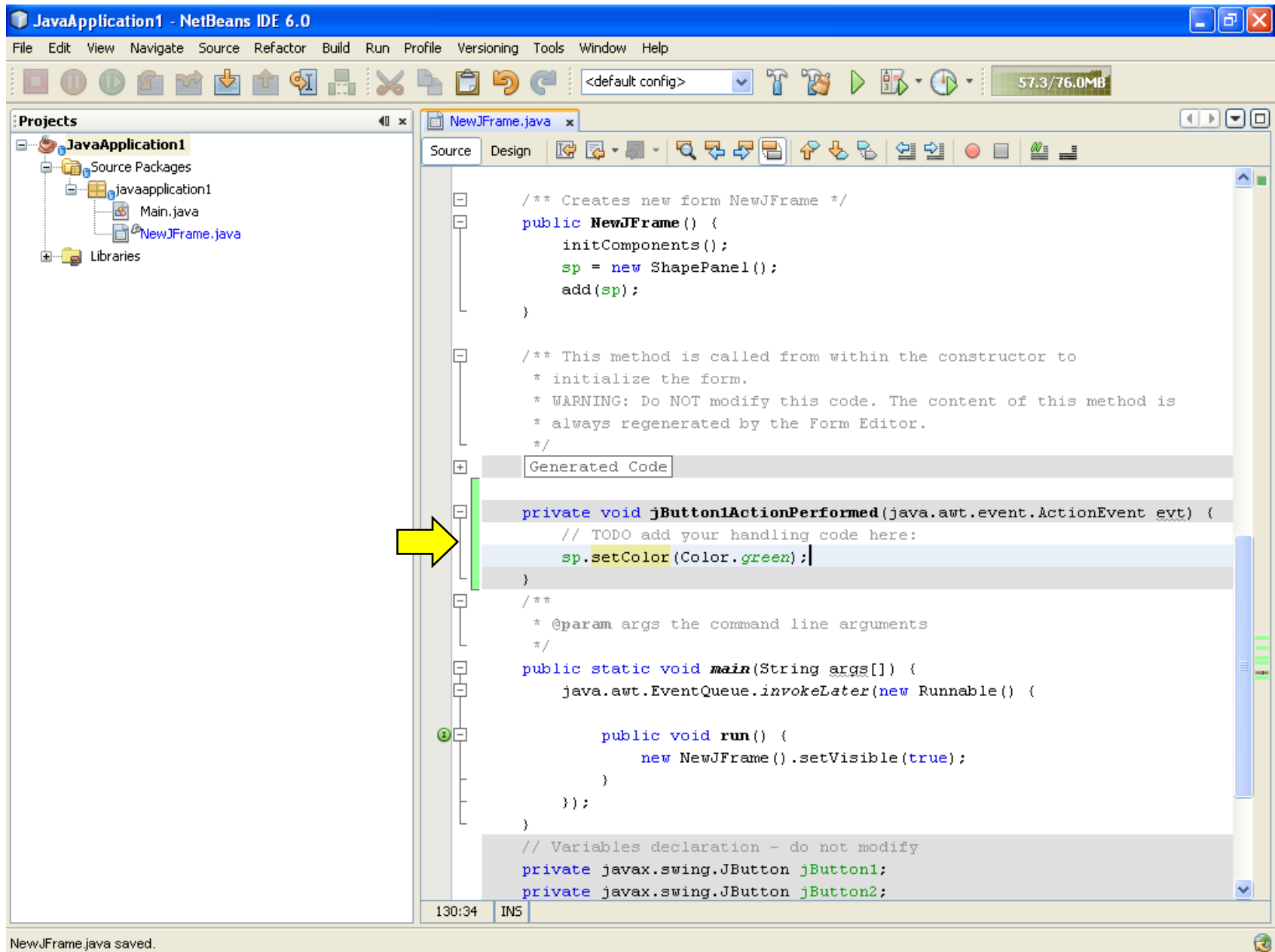


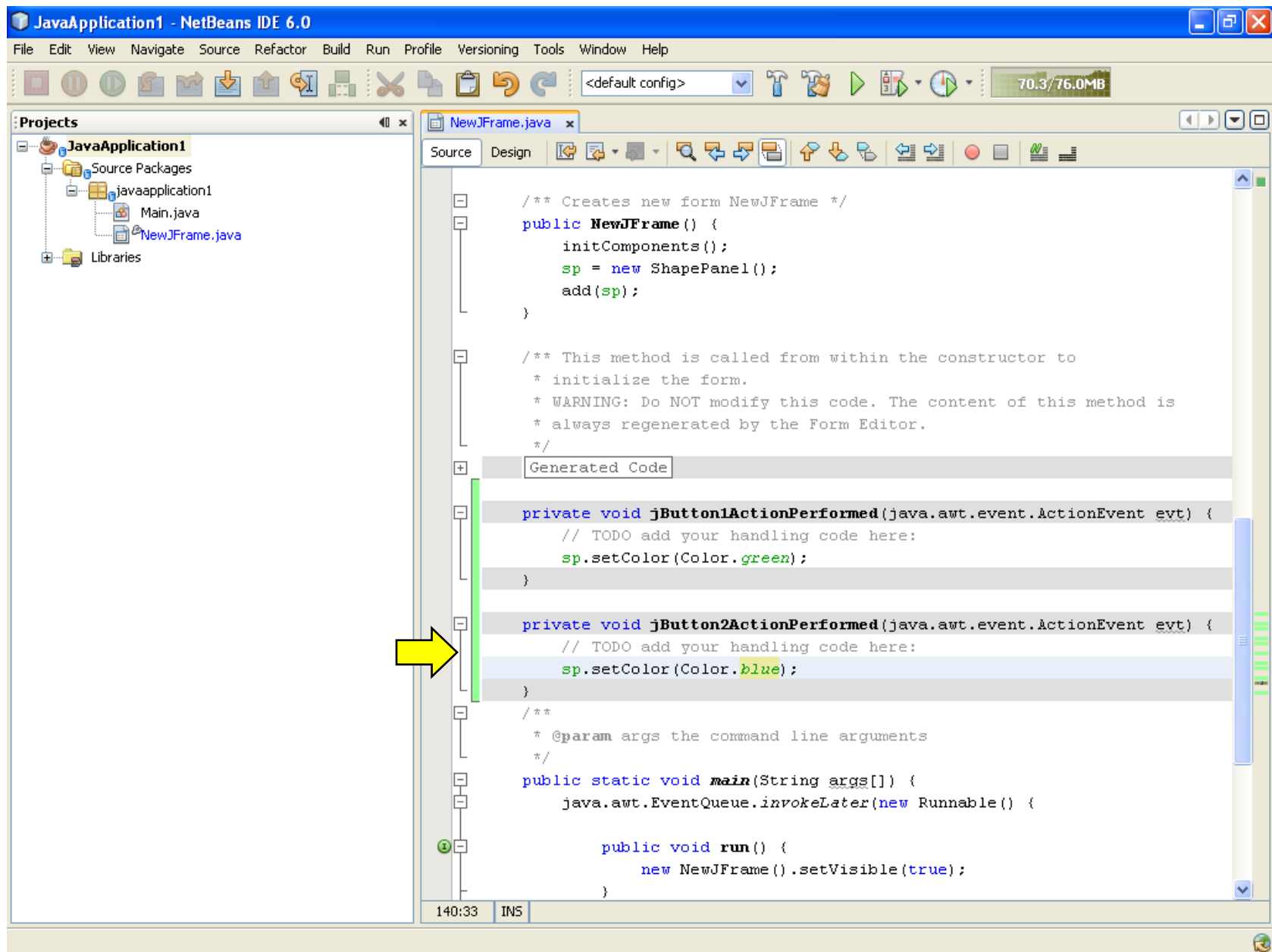


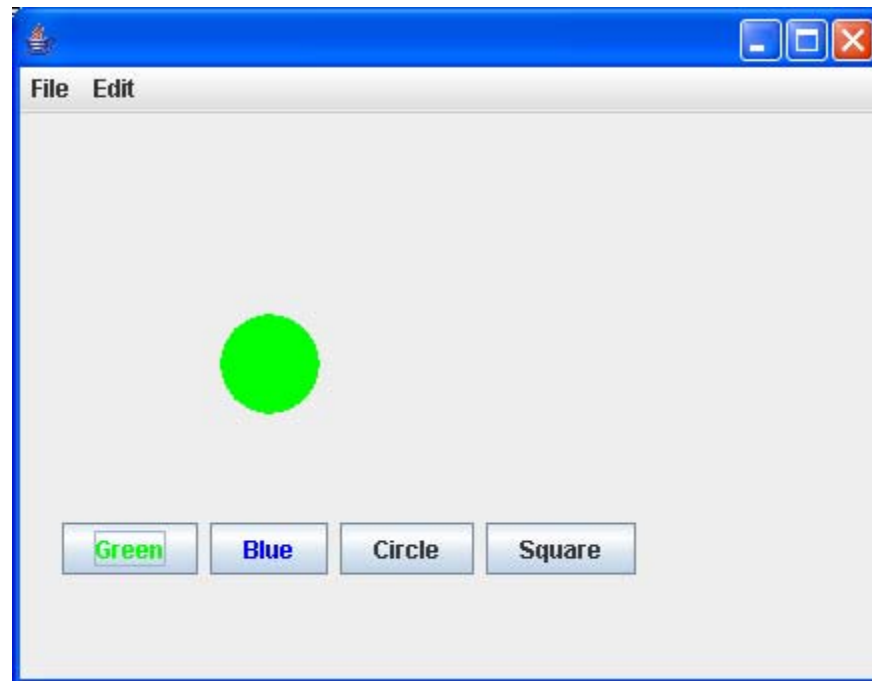


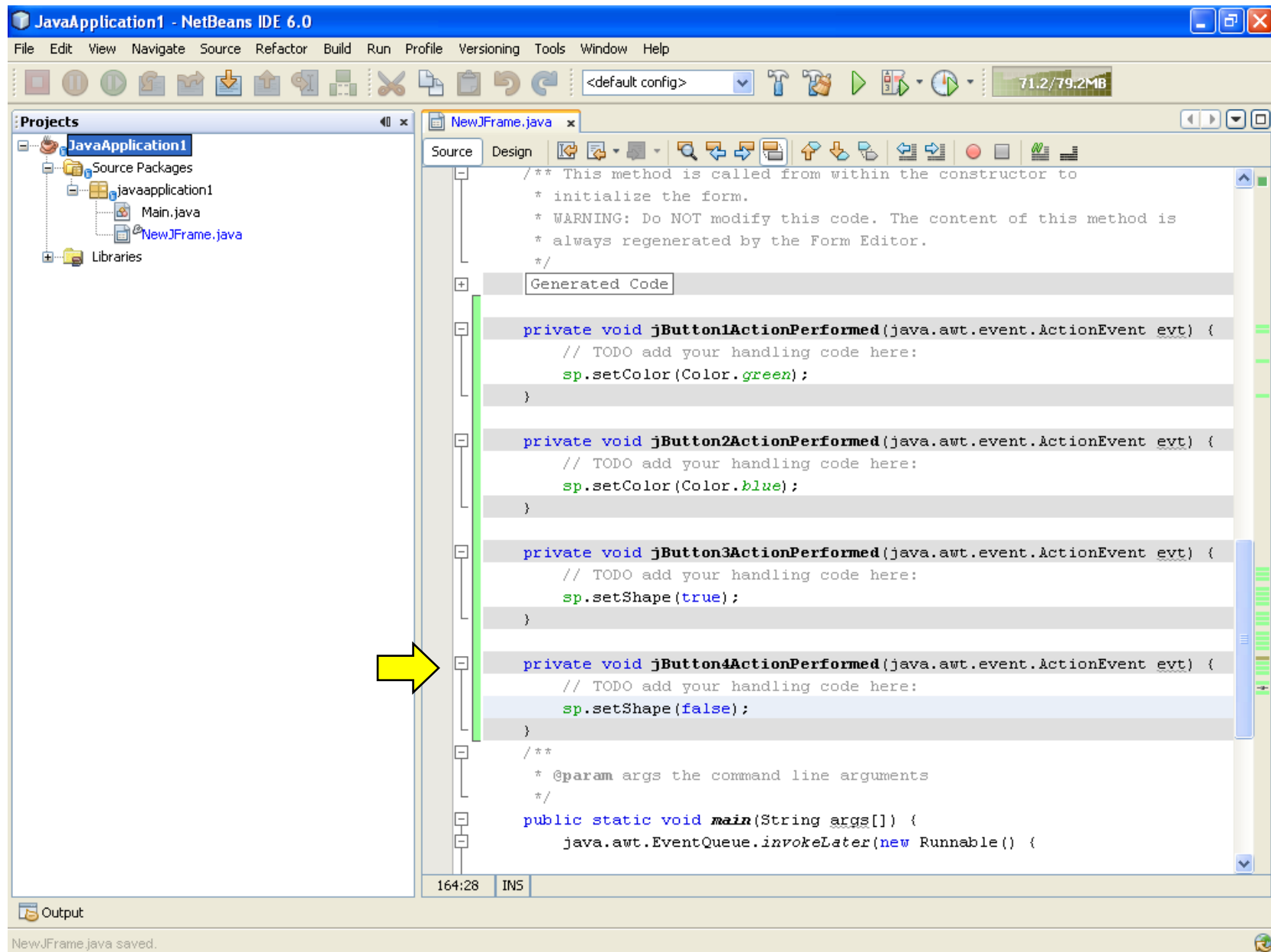
Handle Button Action

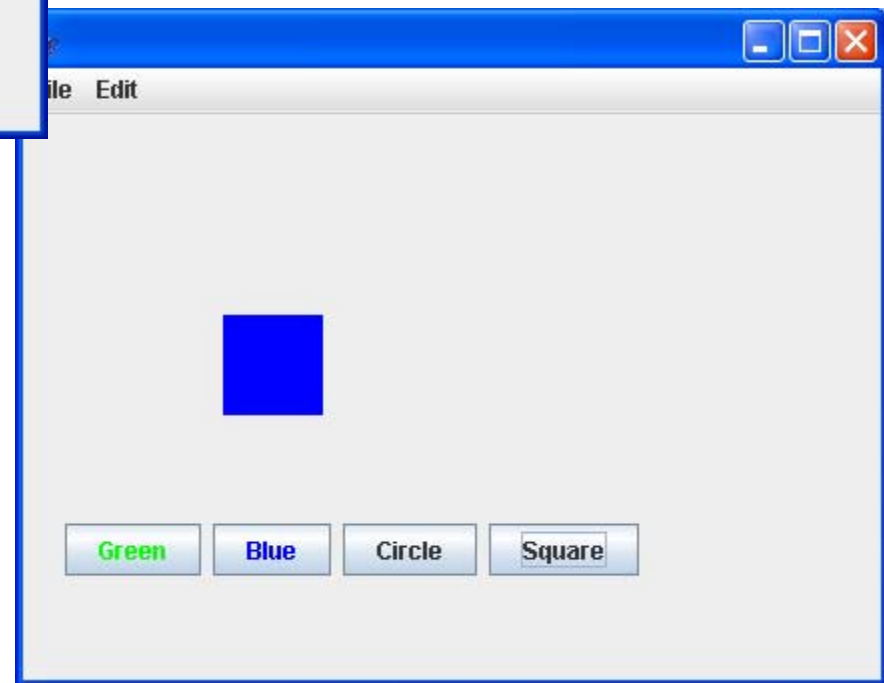
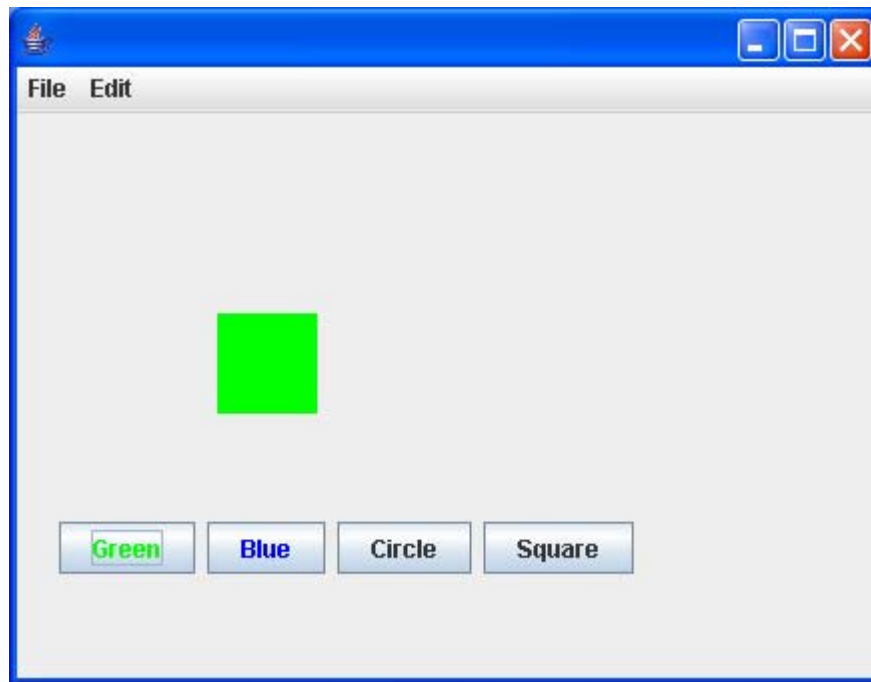




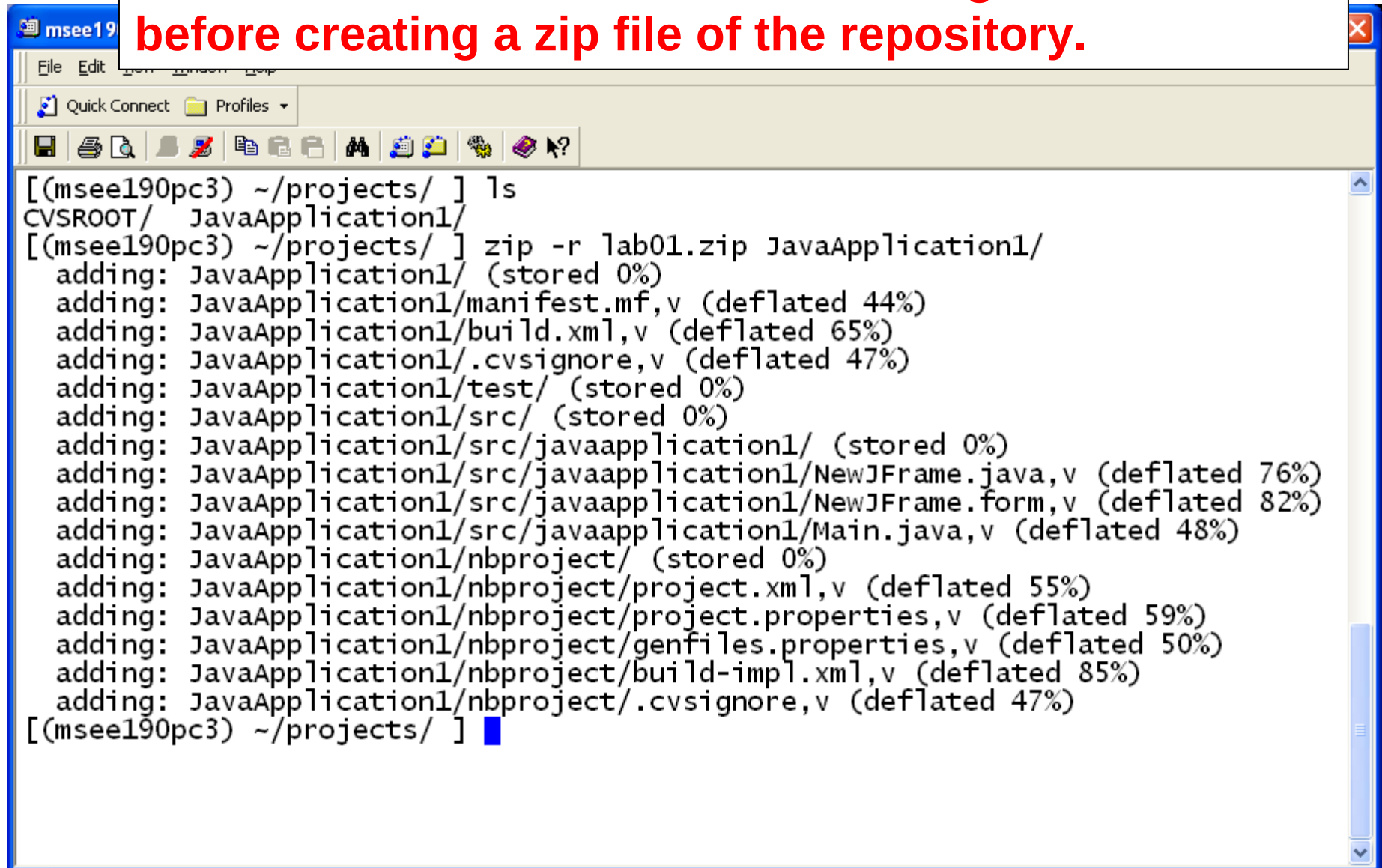








Please remember to commit all changes in Netbeans before creating a zip file of the repository.



```
[(msee190pc3) ~/projects/ ] ls
CVSROOT/  JavaApplication1/
[(msee190pc3) ~/projects/ ] zip -r lab01.zip JavaApplication1/
  adding: JavaApplication1/ (stored 0%)
  adding: JavaApplication1/manifest.mf,v (deflated 44%)
  adding: JavaApplication1/build.xml,v (deflated 65%)
  adding: JavaApplication1/.cvsignore,v (deflated 47%)
  adding: JavaApplication1/test/ (stored 0%)
  adding: JavaApplication1/src/ (stored 0%)
  adding: JavaApplication1/src/javaapplication1/ (stored 0%)
  adding: JavaApplication1/src/javaapplication1/NewJFrame.java,v (deflated 76%)
  adding: JavaApplication1/src/javaapplication1/NewJFrame.form,v (deflated 82%)
  adding: JavaApplication1/src/javaapplication1/Main.java,v (deflated 48%)
  adding: JavaApplication1/nbproject/ (stored 0%)
  adding: JavaApplication1/nbproject/project.xml,v (deflated 55%)
  adding: JavaApplication1/nbproject/project.properties,v (deflated 59%)
  adding: JavaApplication1/nbproject/genfiles.properties,v (deflated 50%)
  adding: JavaApplication1/nbproject/build-impl.xml,v (deflated 85%)
  adding: JavaApplication1/nbproject/.cvsignore,v (deflated 47%)
[(msee190pc3) ~/projects/ ]
```

Submission: A zip file of the CVS repository

Submission in Blackboard

You **MUST** submit through this procedure.
Email submission is **not** accepted.
Late submission is not accepted.

Log in to Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://blackboard.purdue.edu/webct/logonDisplay.dowel

Google

Check Browser | Help

PURDUE
UNIVERSITY

West Lafayette Academic Campus

West Lafayette Academic Campus Log In

Blackboard
learning System
Vista Enterprise License

Log In

User name:

Password:

OK

To view a list of available courses or to create an account, visit the [Entry Page](#).
[Forgot your password?](#) Receive your user name and a new password via e-mail.

Browser Check

Before logging in, it is highly recommended that you perform a browser check to see if your computer is properly configured to use the Blackboard Learning System.

Check Browser

Pop-up Blockers

The Blackboard Learning System sometimes uses small browser windows to deliver requested content. Some pop-up blockers incorrectly interpret these small windows as pop-ups and block them. If you have installed a pop-up blocker, turn it off while using the Learning System.

Java Security Certificate

After logging in to the Blackboard Learning System, you may be prompted to download and install a Java Security Certificate.

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0

PURDUE UNIVERSITY West Lafayette Academic Campus

Accessibility | Help

Build Teach Student View ECE 462 - Y Lu

Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search
- Syllabus
- Web Links

Your location: Home Page

Lab Exercise

Click

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0

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- Goals
- Learning Modules
- Mail
- Media Library
- Roster
- SCORM
- Search
- Syllabus
- Web Links

Your location: Home Page > Lab Exercise

Lab01

Click

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0 Google

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Build Teach **Student View** ECE 462 - Y Lu

Course Tools

- Course Content
- Announcements
- Assessments
- Assignments
- Calendar
- Chat
- Discussions
- Goals
- Learning Modules
- Mail
- Media Library
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- SCORM
- Search
- Syllabus
- Web Links

Your location: Home Page > Lab Exercise > Edit Submission

Edit Submission: Lab01 (Attempt 1)

Due Date: February 28, 2008 12:00 PM ← Status: In Progress (Attempt 1)

Type: Work individually

Grading Criteria: Alphanumeric

Due Date

Instructions:

Attachments:

Submission:

Enable HTML Creator

Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0

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Course Tools

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- Roster
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- Web Links

Submission:

Enable HTML Creator

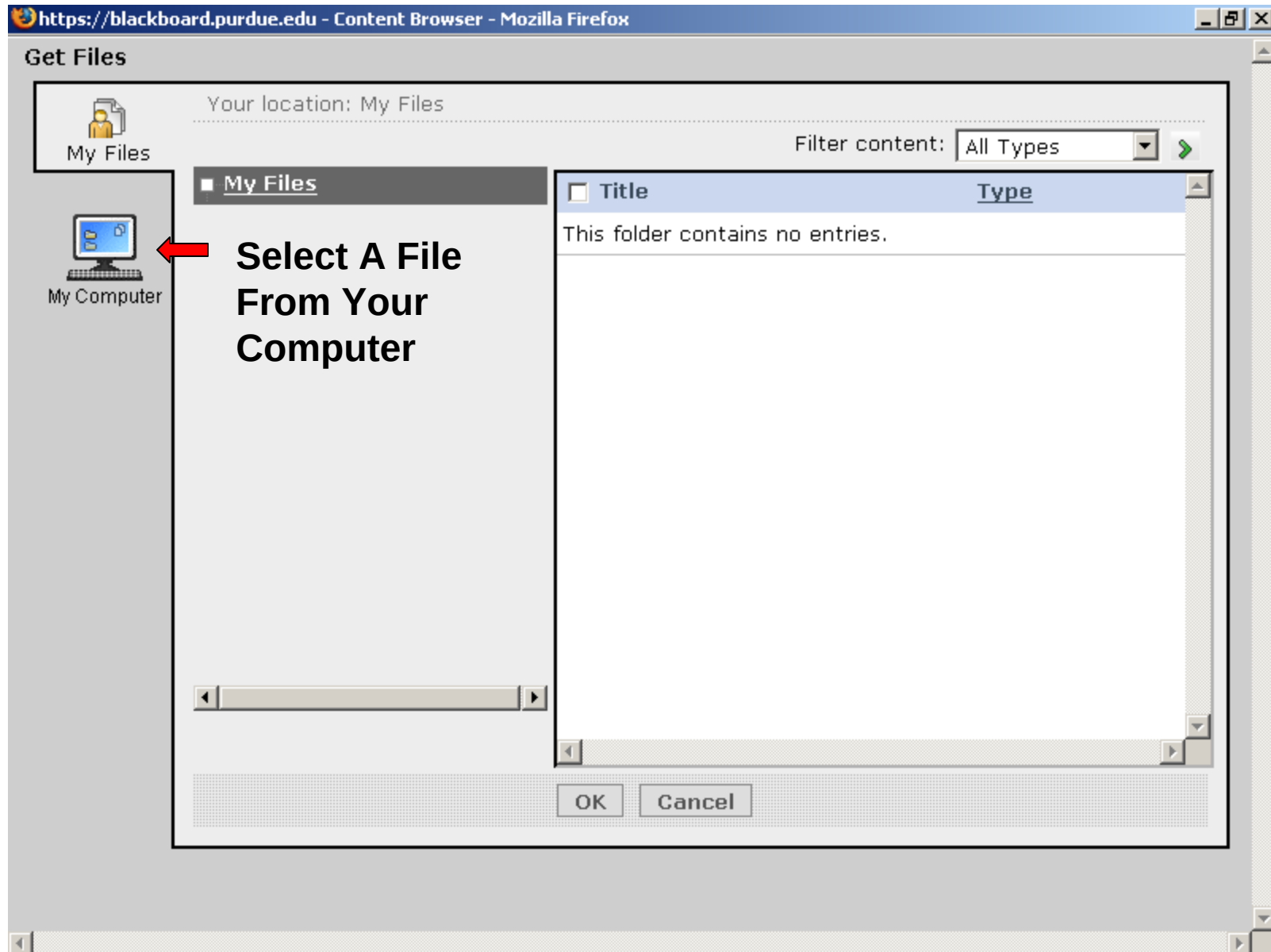
☐ Use HTML

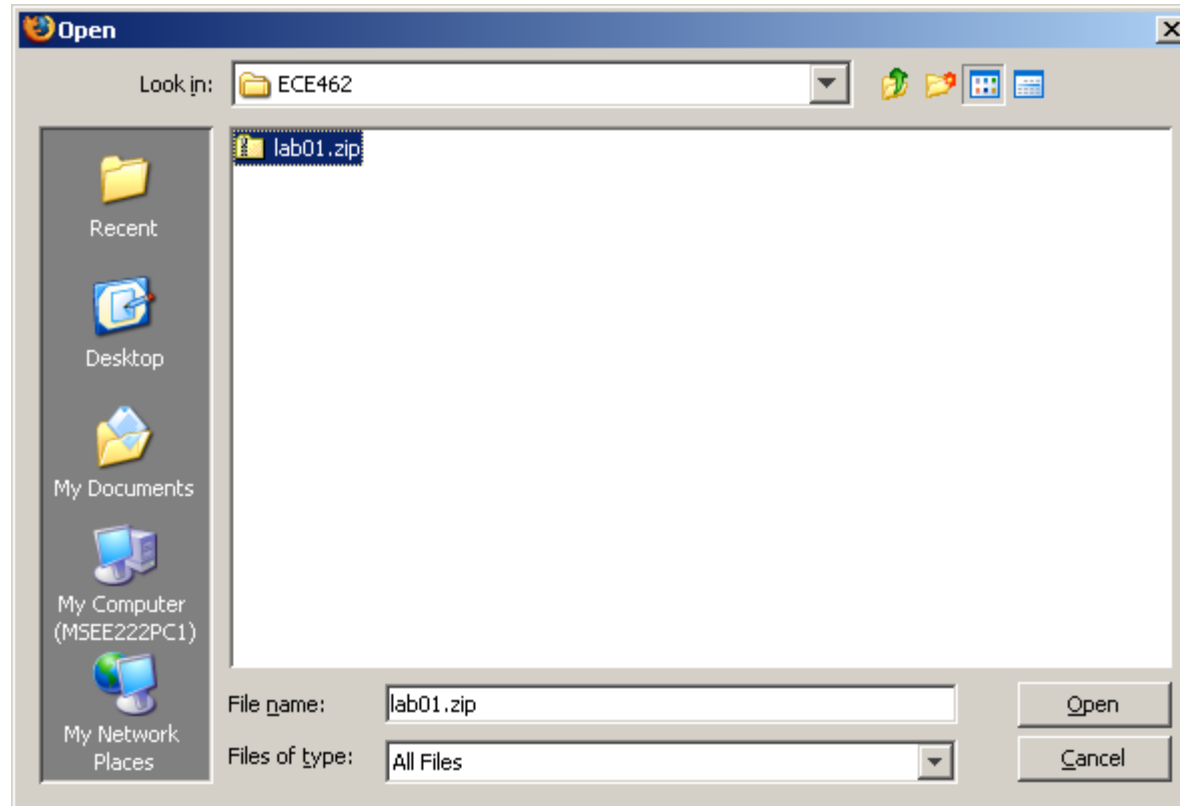
Add Attachments

Add Comment:



Add Attachments





Blackboard Learning System - Mozilla Firefox

File Edit View History Bookmarks Tools Help

https://blackboard.purdue.edu/webct/urw/lc8056011.tp0

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Course Tools

- Course Content
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- Web Links

☐ Use HTML

[lab01.zip](#) Demo Student - February 28, 2008 11:48 AM 

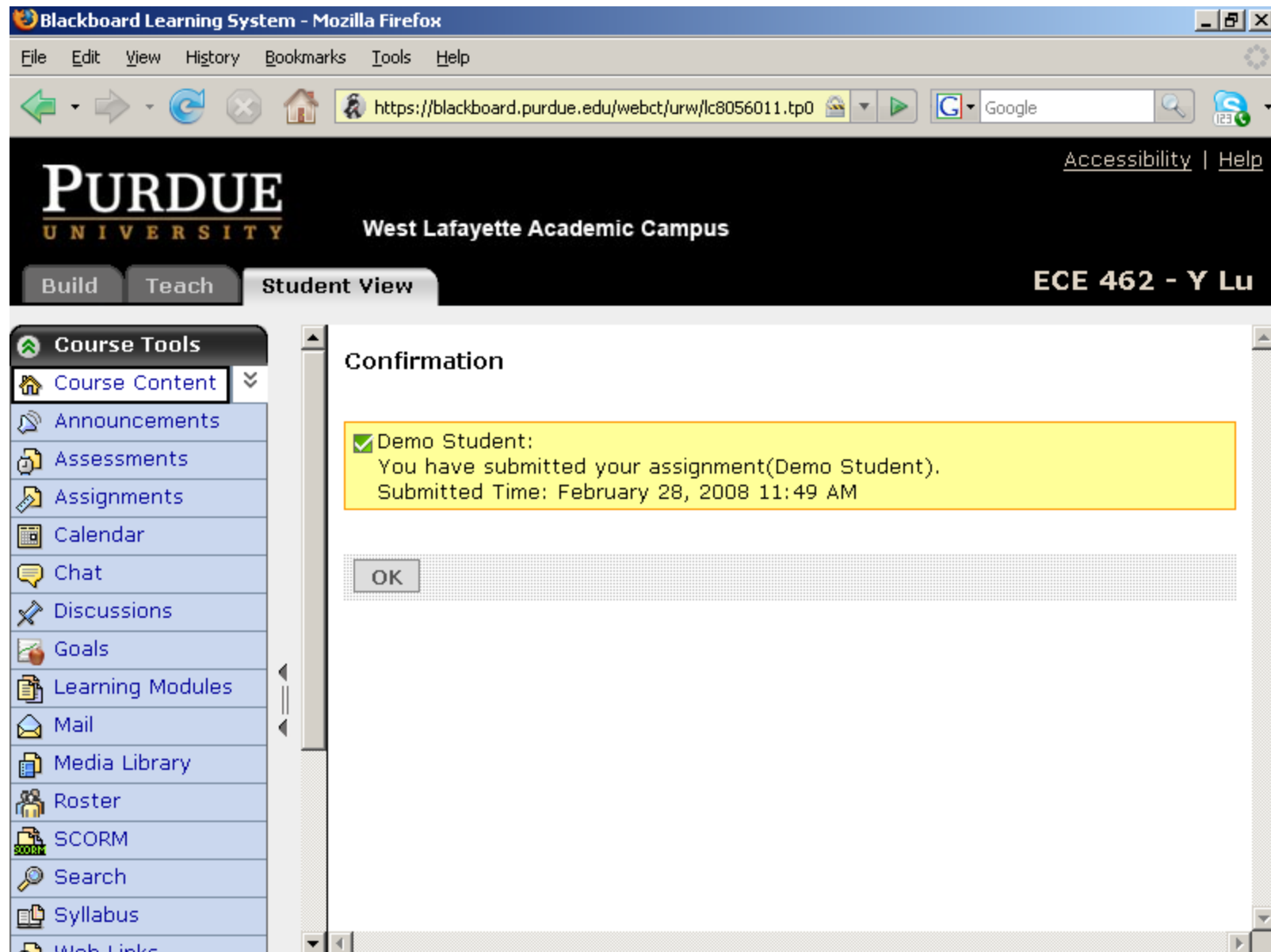
Add Attachments

Add Comment:

Submit Cancel Save as Draft

Click Submit

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Your location: Home Page > Lab Exercise > View Submission

Assignment Submission: Lab01

Due Date: February 28, 2008 12:00 PM
Type: Work individually
Grading Criteria: Alphanumeric

Status: Submitted on February 28, 2008 11:49 AM (Attempt #1)

Submitted

Take Back for Resubmission

Instructions:

Attachments

Submission:

Attachments [lab01.zip](#)

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Your location: [Home Page](#) > [Lab Exercise](#) > [View Submission](#) > [Edit](#)

Submission

✓ You have taken back your submission and can edit it now.

Edit Submission: Lab01 (Attempt 1)

Due Date: February 28, 2008 12:00 PM Status: In Progress (Attempt 1)
Type: Work individually
Grading Criteria: Alphanumeric

Instructions:

Attachments:

Submission:

Enable HTML Creator

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Submission:

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Add Attachments

Add Comment:

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Your location: [Home Page](#) > [Lab Exercise](#) > [View Submission](#) > [Edit](#)

Submission

Edit Submission: Lab01 (Attempt 1)

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Instructions:

Attachments:

Submission:

Enable HTML Creator

You are **strongly encouraged to submit your partial assignment **early**.**

You can submit improvements before the deadline.

Please remember that late submission is not accepted for any reason.