

Installing and running the  
local check and grader  
projects in Eclipse

Setup projects

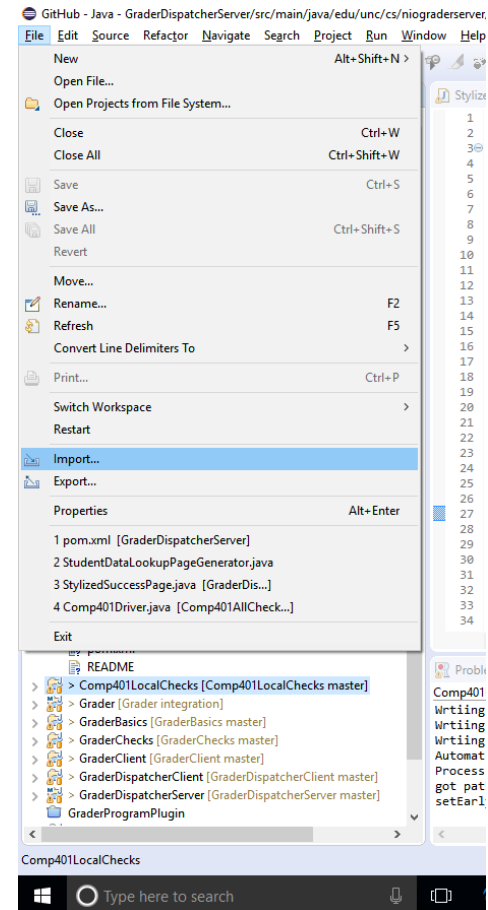
# Download projects from Github

Quick overview, in depth follows

- File->Import...
- Git->Projects from git
- Clone URI
  - <https://github.com/pdewan/Comp401LocalChecks.git>
  - <https://github.com/pdewan/GraderBasics.git>
  - <https://github.com/pdewan/Comp401AllChecks.git>
  - <https://github.com/pdewan/Grader.git>
- Grader branch = integration
- Rest = master

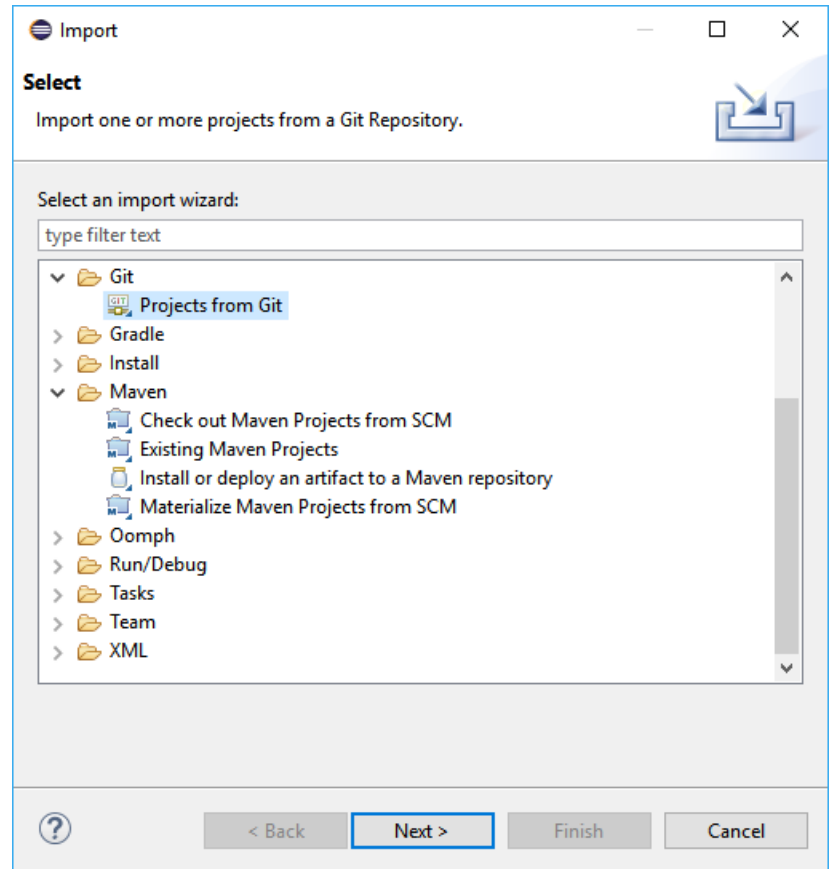
# Download projects from Github

- Import project



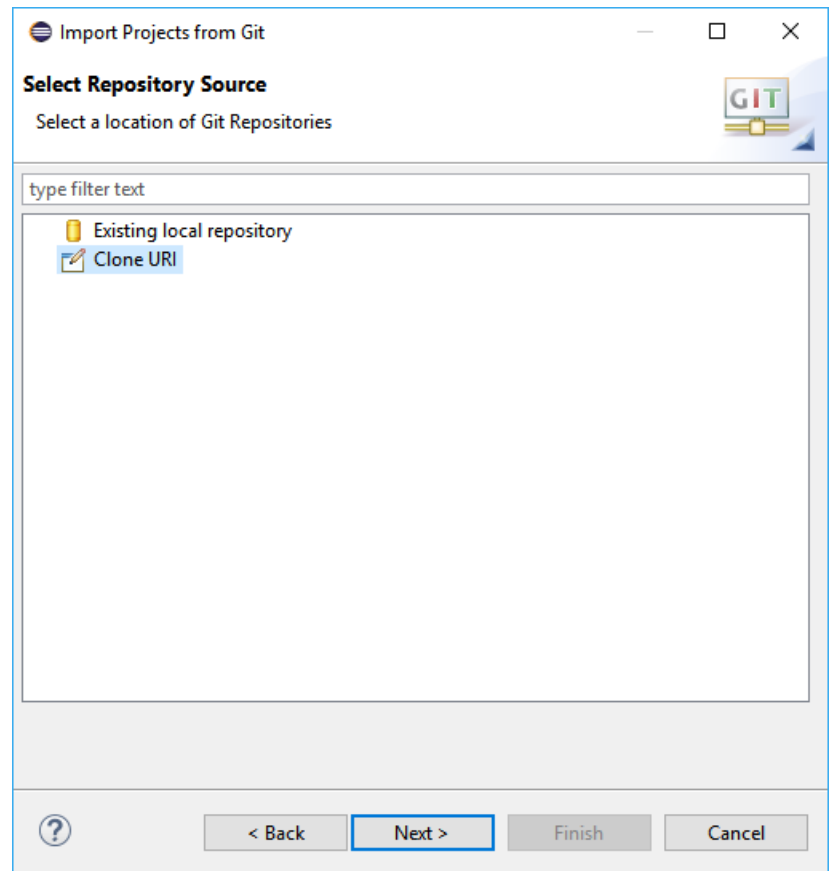
# Download projects from Github

- Select “Projects from Git”



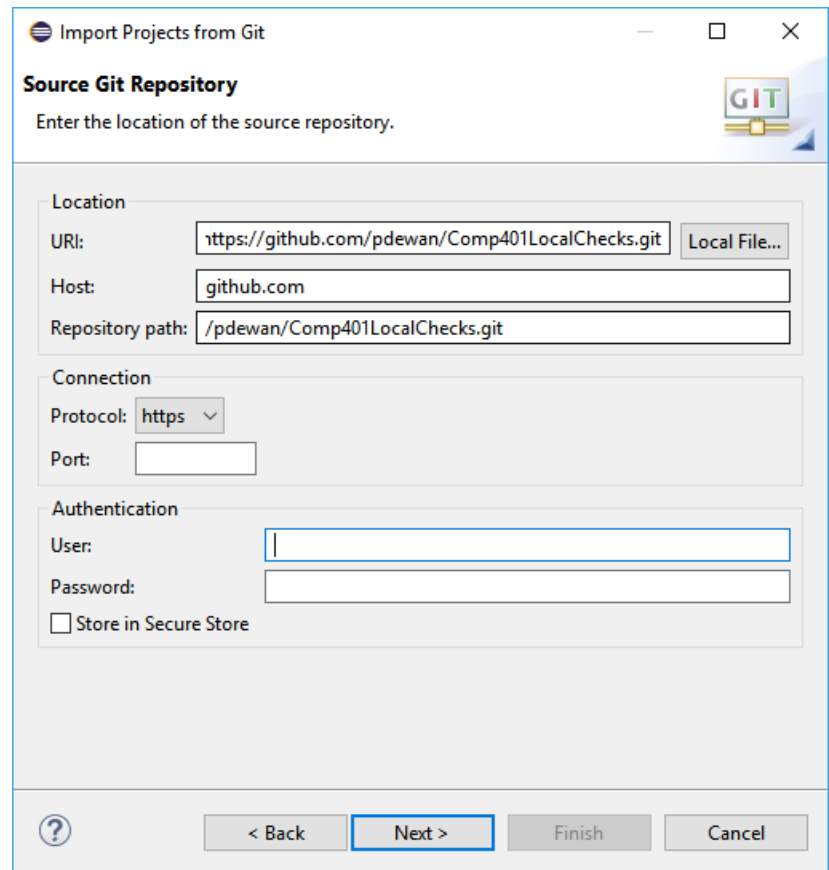
# Download projects from Github

- Clone URI
- Comp401LocalChecks
  - <https://github.com/pdewan/Comp401LocalChecks.git>
- GraderBasics
  - <https://github.com/pdewan/GraderBasics.git>
- Comp401AllChecks
  - <https://github.com/pdewan/Comp401AllChecks.git>
- Grader
  - <https://github.com/pdewan/Grader.git>



# Download projects from Github

- Set the URI for the project from GitHub
- Eclipse autocompletes the rest



The screenshot shows the 'Import Projects from Git' dialog box in the Eclipse IDE. The dialog has a title bar with the Eclipse logo and the text 'Import Projects from Git'. Below the title bar, there is a section titled 'Source Git Repository' with a subtitle 'Enter the location of the source repository.' and a Git logo. The dialog is divided into three main sections: 'Location', 'Connection', and 'Authentication'. In the 'Location' section, the 'URI' field is filled with 'https://github.com/pdewan/Comp401LocalChecks.git', the 'Host' field is 'github.com', and the 'Repository path' field is '/pdewan/Comp401LocalChecks.git'. There is a 'Local File...' button next to the URI field. In the 'Connection' section, the 'Protocol' is set to 'https' and the 'Port' field is empty. In the 'Authentication' section, the 'User' and 'Password' fields are empty, and there is a checkbox for 'Store in Secure Store' which is unchecked. At the bottom of the dialog, there are four buttons: a help button (question mark icon), '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.

Import Projects from Git

**Source Git Repository**  
Enter the location of the source repository.

**Location**

URI:  Local File...

Host:

Repository path:

**Connection**

Protocol:  v

Port:

**Authentication**

User:

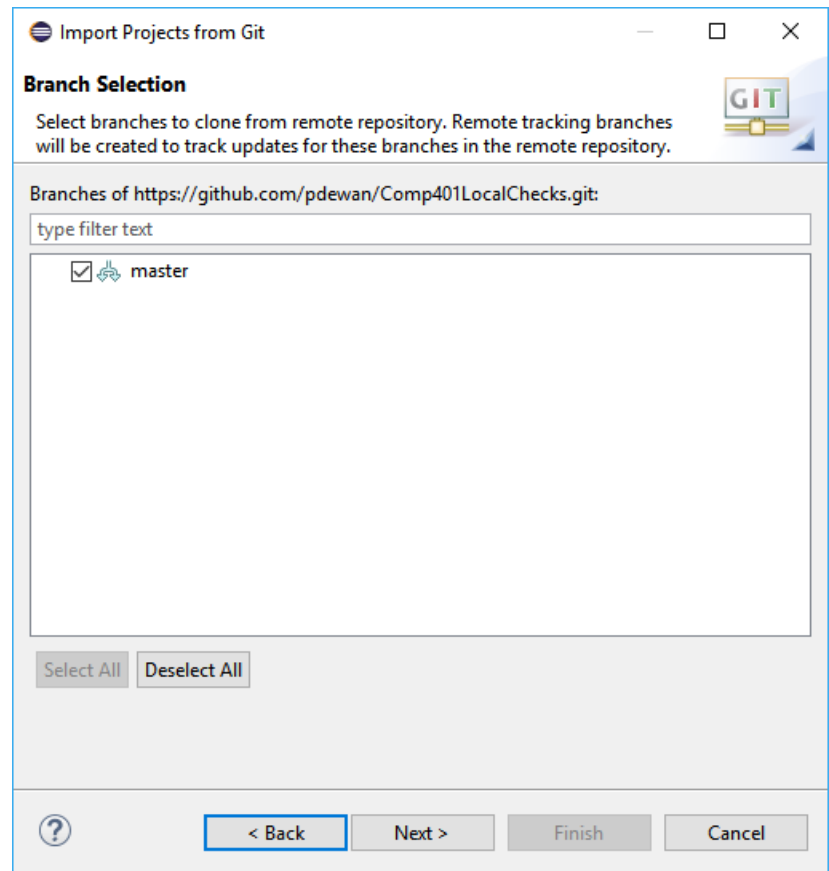
Password:

☐ Store in Secure Store

? < Back Next > Finish Cancel

# Download projects from Github

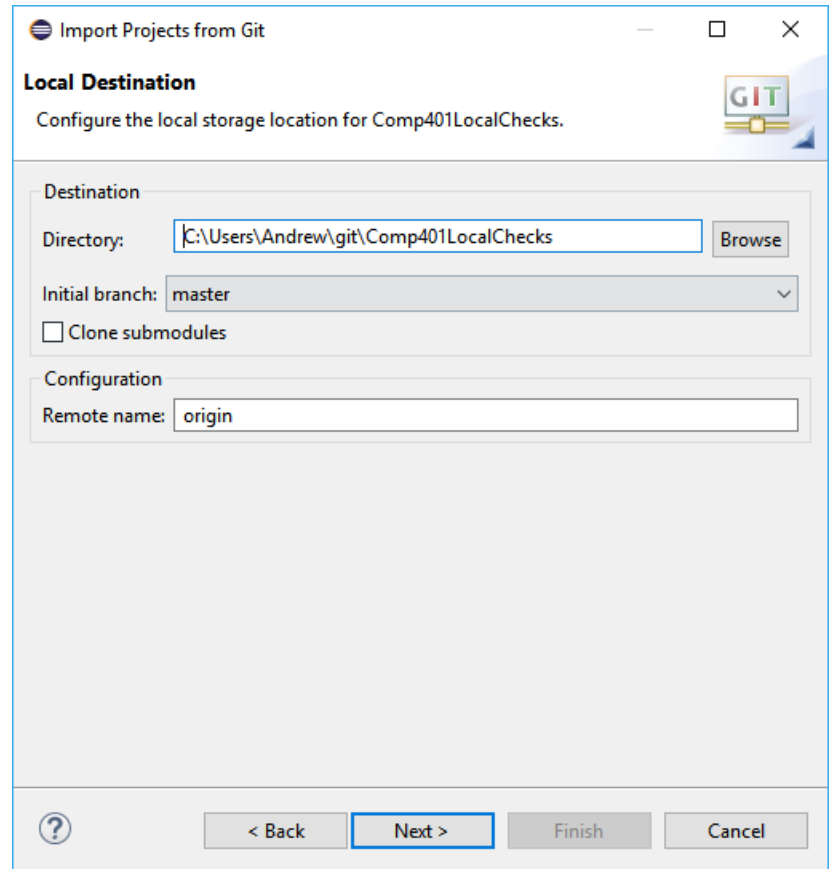
- Choose the “master” branch for all but grader
- Grader is “integration” branch





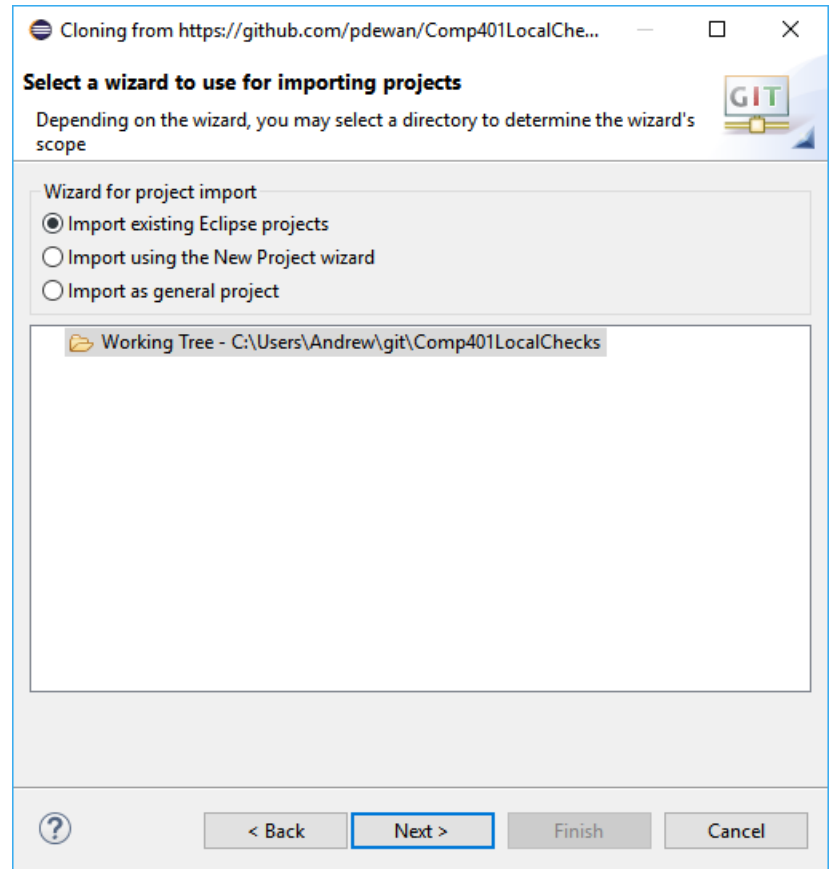
# Download projects from Github

- Choose a directory to save the git project



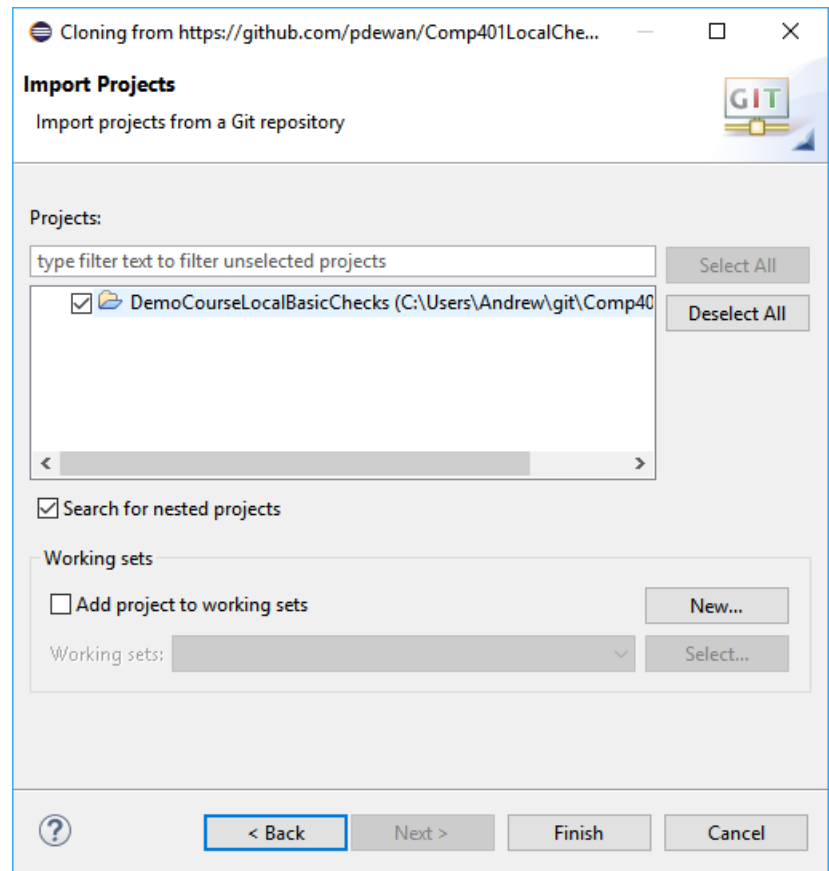
# Download projects from Github

- All projects are existing Eclipse projects



# Download projects from Github

- There may be other projects in the git repository, only import the relevant ones (not Assignments)

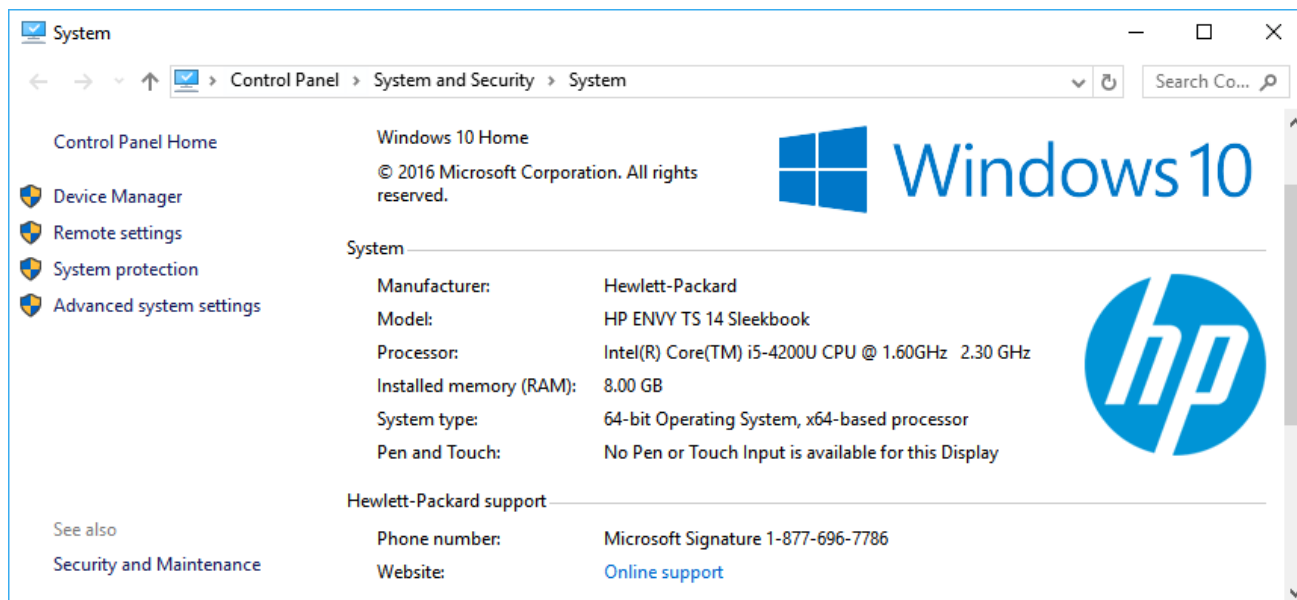


# Correct dependencies

- Projects
  - DemoCourseLocalBasicsChecks = Comp401LocalChecks
  - comp110-grader = Grader
- Libraries
  - oeall22.jar from course website

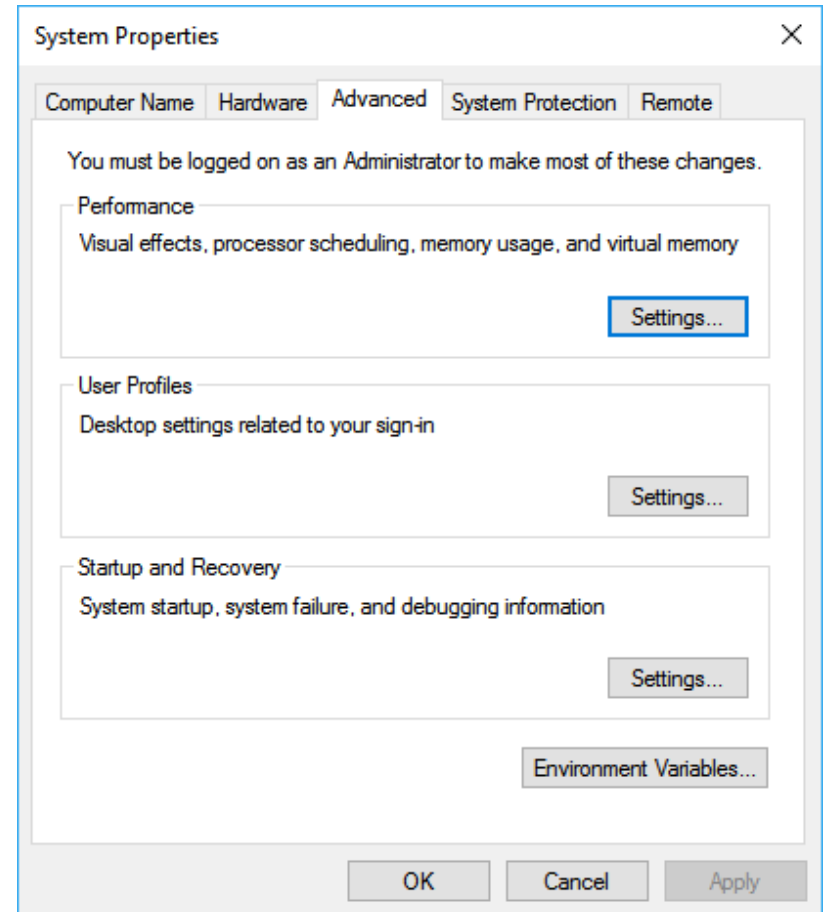
# Setup Checkstyle/UNC Checks (Windows)

- Open “System” from “System and Security” in the Control Panel
- Select “Advanced system settings”



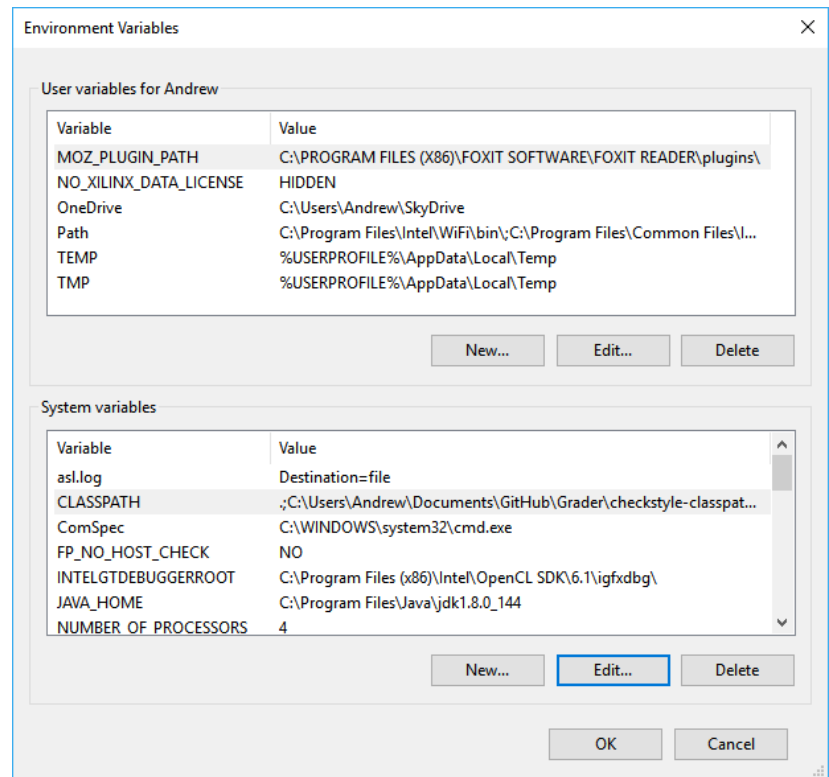
# Setup Checkstyle/UNC Checks (Windows)

- Select Environment Variables...



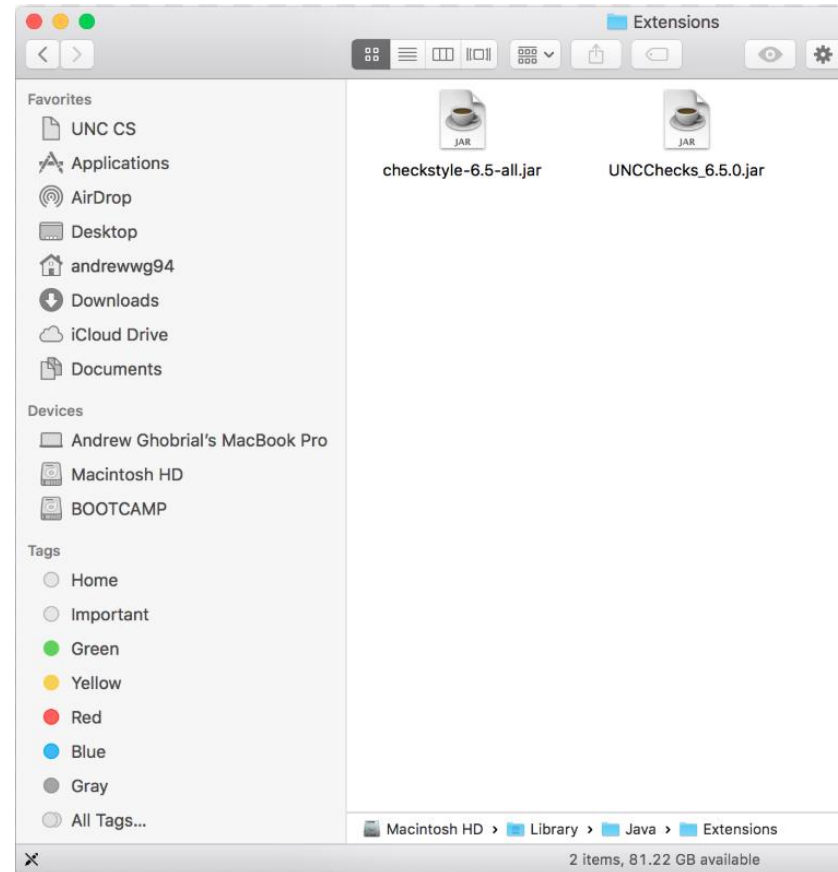
# Setup Checkstyle/UNC Checks (Windows)

- Create a new environment variable called “CLASSPATH” and set it to contain 3 paths separated by semicolons
  - .
  - Path to checkstyle-6.5.0-all.jar
  - Path to UNC\_Checks6.5.0.jar
- .;C:\Users\Andrew\Documents\GitHub\Grader\checkstyle-classpath\checkstyle-6.5-all.jar;C:\Users\Andrew\Documents\GitHub\Grader\checkstyle-classpath\UNCChecks\_6.5.0.jar



# Setup Checkstyle/UNC Checks (Mac)

- Add checkstyle files to Library/Java/Extensions
- If you add ocell to it also, the UI becomes strange and bad
- May need to add localcheckwithoutoe in folder to compile student files





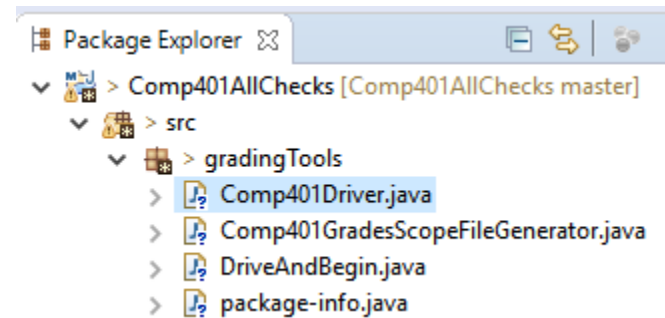
# Run local checks

see local checks ppt

Running the grader

# What to run

- `gradingTools.Comp401`  
Grader from  
`Comp401AllChecks`

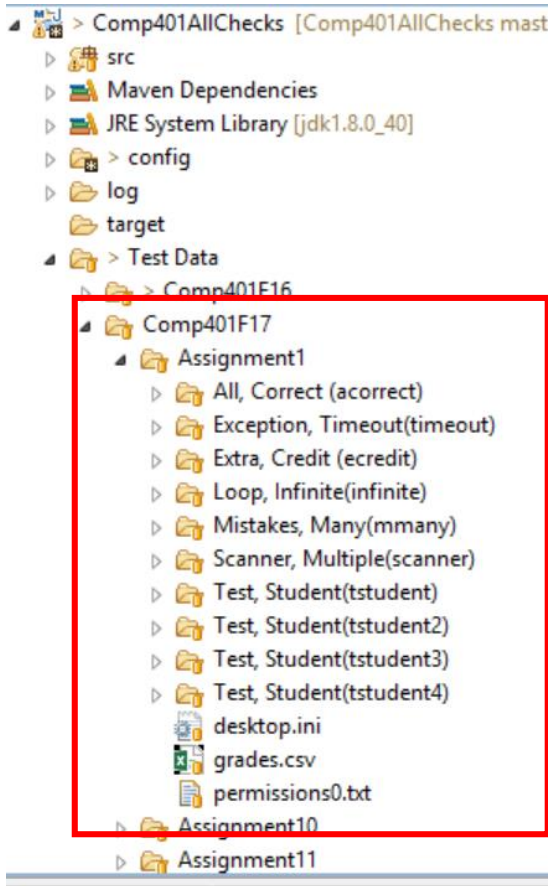


# Submissions directory structure

- Should use data straight from Sakai
- Check *Comp401AllChecks\Test Data\Comp401F17\Assignment1* for example

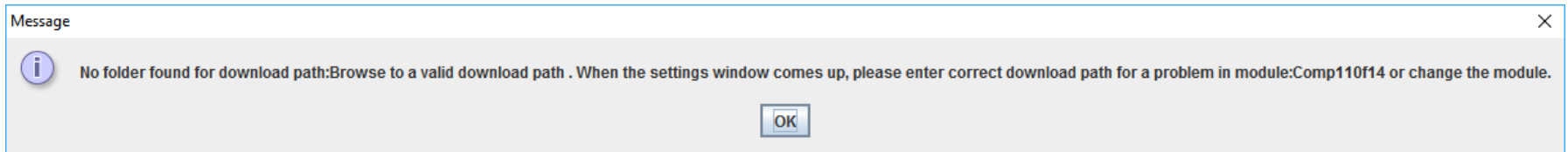
# Test Directory Structure in Project

- Sakai directory mimicked for different courses



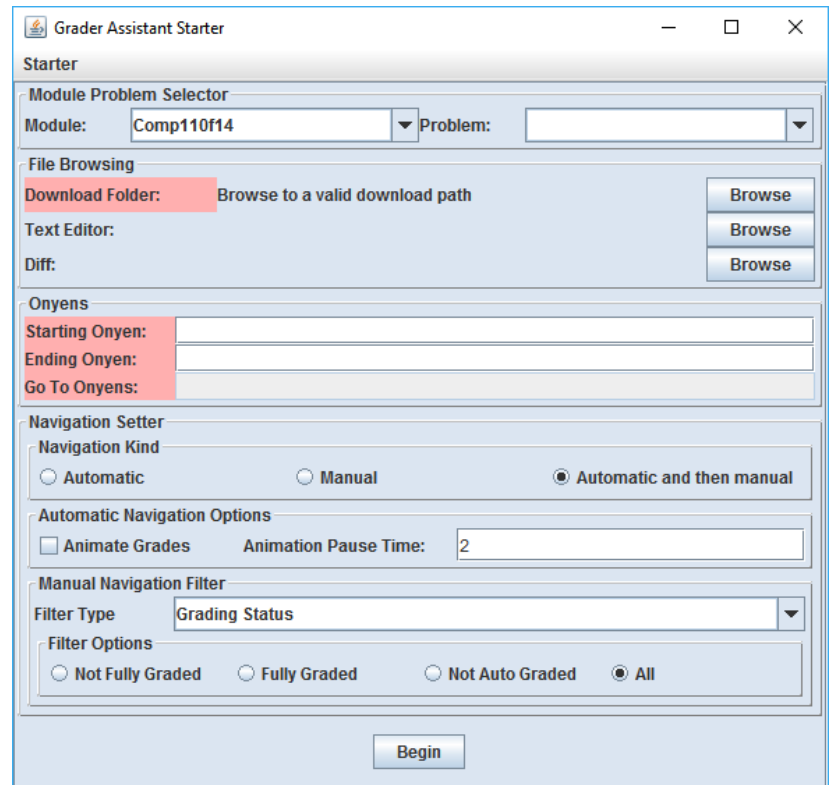
# First run

- There will be a message about missing download path, this is okay
- Grader saves paths, course/assignment choices, and onyens in config files when run



# Setting download directory

- Press browse next to Download Folder



The screenshot shows the 'Grader Assistant Starter' window. The 'Download Folder' field is highlighted in red, and the 'Browse' button next to it is also highlighted in red. The window contains several other sections: 'Module Problem Selector' with 'Module' set to 'Comp110f14' and 'Problem' set to an empty dropdown; 'File Browsing' with 'Download Folder', 'Text Editor', and 'Diff' fields, each with a 'Browse' button; 'Onyens' with 'Starting Onyen', 'Ending Onyen', and 'Go To Onyens' fields; 'Navigation Setter' with 'Navigation Kind' (Automatic, Manual, Automatic and then manual) and 'Automatic Navigation Options' (Animate Grades, Animation Pause Time: 2); 'Manual Navigation Filter' with 'Filter Type' (Grading Status) and 'Filter Options' (Not Fully Graded, Fully Graded, Not Auto Graded, All).

Grader Assistant Starter

Starter

Module Problem Selector

Module: Comp110f14 Problem:

File Browsing

Download Folder: Browse to a valid download path Browse

Text Editor: Browse

Diff: Browse

Onyens

Starting Onyen:

Ending Onyen:

Go To Onyens:

Navigation Setter

Navigation Kind

☐ Automatic ☐ Manual ☒ Automatic and then manual

Automatic Navigation Options

☐ Animate Grades Animation Pause Time: 2

Manual Navigation Filter

Filter Type Grading Status

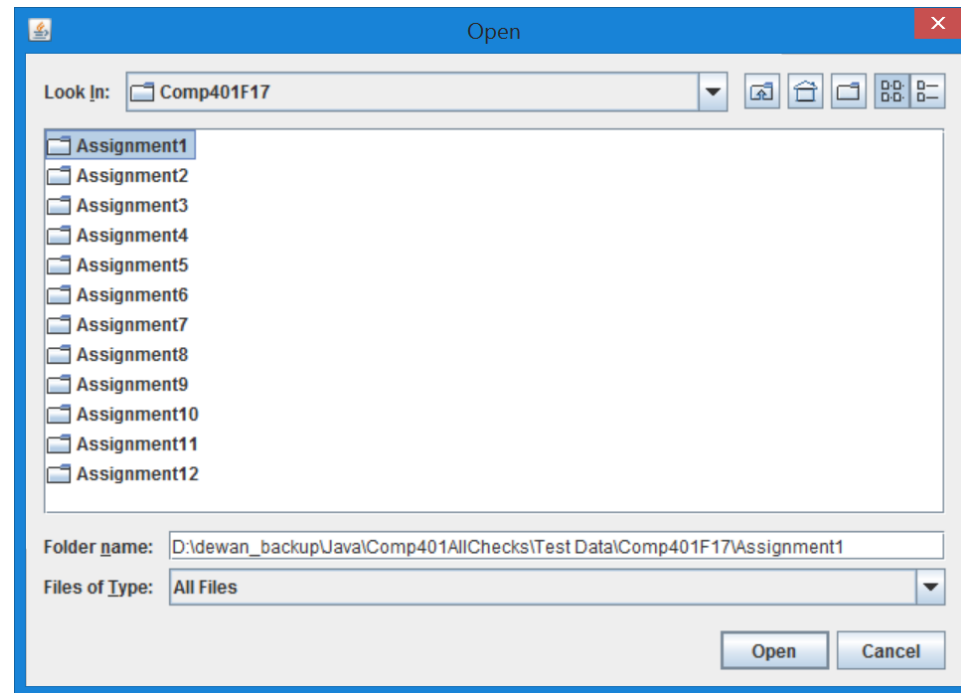
Filter Options

☐ Not Fully Graded ☐ Fully Graded ☐ Not Auto Graded ☒ All

Begin

# Setting download directory

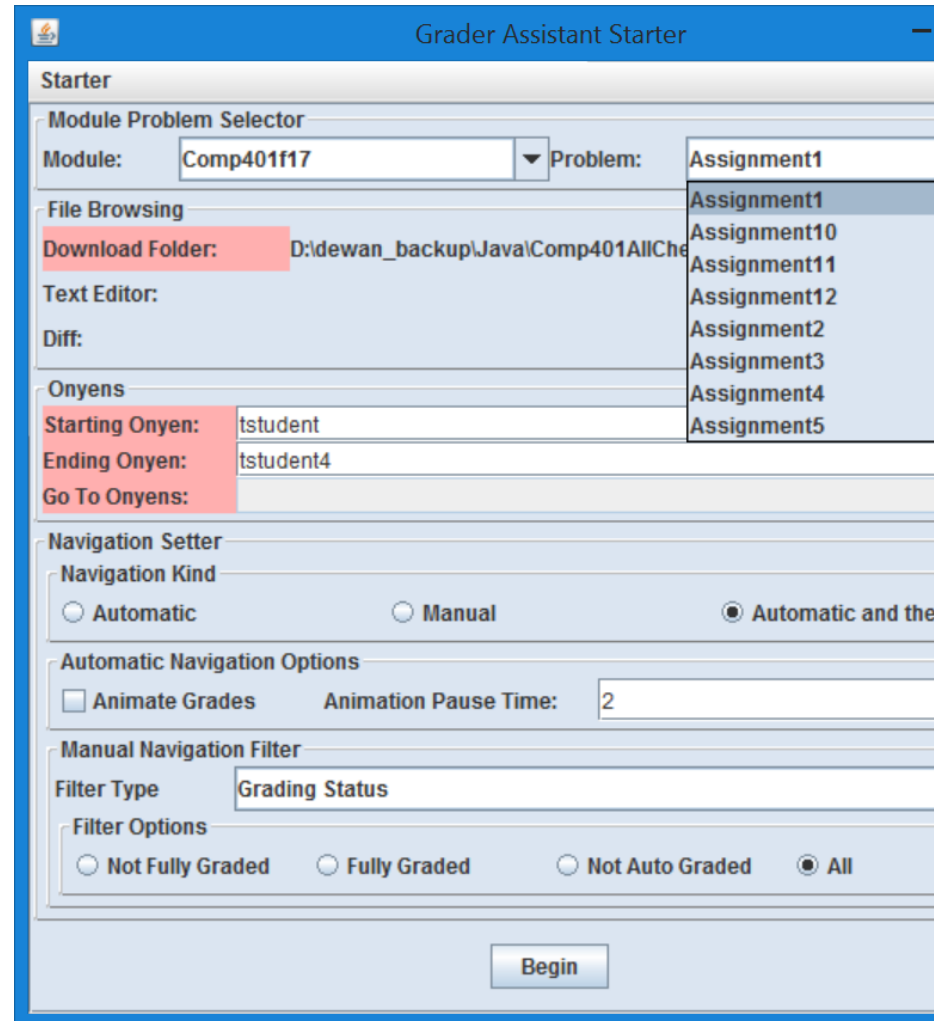
- Press browse next to Download Folder and browse to test data or actual data





# Setting download directory

- Grader will know about all assignments in parent directory, so if parent directory is the same for all assignments, this step is not repeated for each course



The screenshot shows the 'Grader Assistant Starter' dialog box. It has several sections: 'Module Problem Selector' with 'Module' set to 'Comp401f17' and 'Problem' set to 'Assignment1'; 'File Browsing' with 'Download Folder' set to 'D:\dewan\_backup\Java\Comp401AllChe' and 'Text Editor' and 'Diff' fields; 'Onyens' with 'Starting Onyen' set to 'tstudent', 'Ending Onyen' set to 'tstudent4', and 'Go To Onyens' empty; 'Navigation Setter' with 'Navigation Kind' set to 'Automatic and the'; 'Automatic Navigation Options' with 'Animate Grades' unchecked and 'Animation Pause Time' set to '2'; 'Manual Navigation Filter' with 'Filter Type' set to 'Grading Status' and 'Filter Options' set to 'All'. A 'Begin' button is at the bottom right.

Module	Problem
Comp401f17	Assignment1

Download Folder: D:\dewan\_backup\Java\Comp401AllChe

Text Editor:

Diff:

Onyens

Starting Onyen: tstudent

Ending Onyen: tstudent4

Go To Onyens:

Navigation Setter

Navigation Kind

☐ Automatic ☐ Manual ☒ Automatic and the

Automatic Navigation Options

☐ Animate Grades Animation Pause Time: 2

Manual Navigation Filter

Filter Type: Grading Status

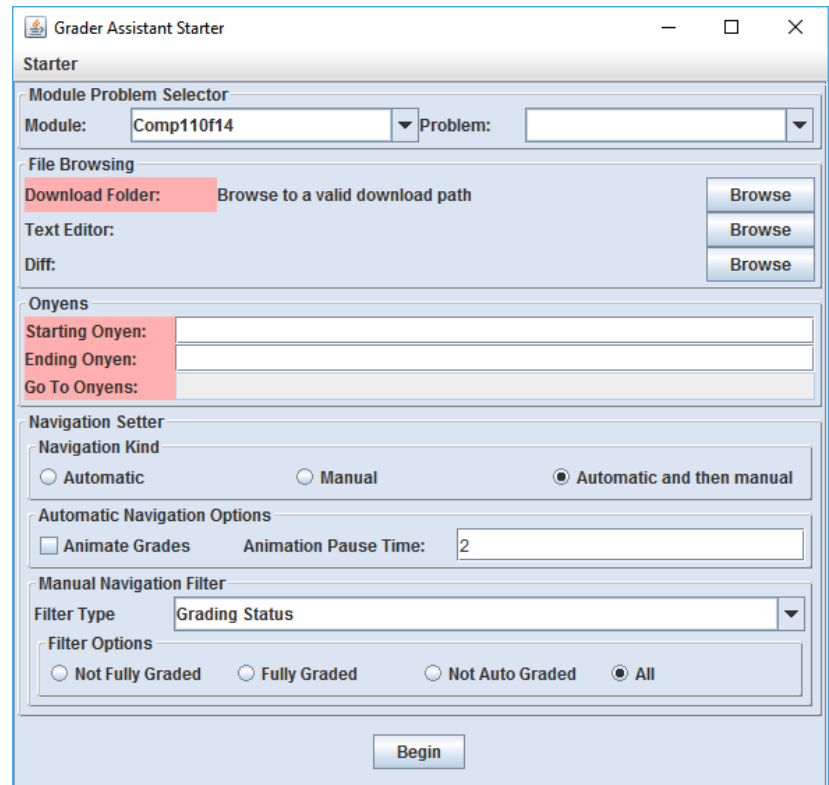
Filter Options

☐ Not Fully Graded ☐ Fully Graded ☐ Not Auto Graded ☒ All

Begin

# Setting what to grade

- Set Download folder to folder containing assignments
- Set Module to correct course
- Set Problem to assignment to grade



The screenshot shows the 'Grader Assistant Starter' window. It contains several sections for configuring the grading process:

- Module Problem Selector:** A dropdown menu for 'Module' is set to 'Comp110f14'. A 'Problem' dropdown menu is also present.
- File Browsing:** A 'Download Folder:' label is followed by a text input field and a 'Browse' button. Below it are 'Text Editor:' and 'Diff:' labels, each with a 'Browse' button.
- Onyens:** Three text input fields labeled 'Starting Onyen:', 'Ending Onyen:', and 'Go To Onyens:'.
- Navigation Setter:** A 'Navigation Kind' section with three radio buttons: 'Automatic', 'Manual', and 'Automatic and then manual' (which is selected).
- Automatic Navigation Options:** A checkbox for 'Animate Grades' and a text input for 'Animation Pause Time' set to '2'.
- Manual Navigation Filter:** A 'Filter Type' dropdown menu set to 'Grading Status'.
- Filter Options:** Four radio buttons: 'Not Fully Graded', 'Fully Graded', 'Not Auto Graded', and 'All' (which is selected).
- Begin:** A large button at the bottom right of the window.

# Setting who to grade

- Range of onyens
  - First/last in starting/ending onyen boxes
- List of onyens
  - Comma separated list I go to box.

The screenshot shows the 'Grader Assistant Starter' window. It contains several sections for configuring the grading process:

- Module Problem Selector:** Includes a 'Module' dropdown set to 'Comp110f14' and an empty 'Problem' dropdown.
- File Browsing:** Includes 'Download Folder:', 'Text Editor:', and 'Diff:' labels, each followed by a 'Browse' button.
- Onyens:** Includes 'Starting Onyen:', 'Ending Onyen:', and 'Go To Onyens:' text input fields.
- Navigation Setter:** Includes a 'Navigation Kind' section with radio buttons for 'Automatic', 'Manual', and 'Automatic and then manual' (which is selected).
- Automatic Navigation Options:** Includes a checkbox for 'Animate Grades' and an 'Animation Pause Time' input field set to '2'.
- Manual Navigation Filter:** Includes a 'Filter Type' dropdown set to 'Grading Status' and a 'Filter Options' section with radio buttons for 'Not Fully Graded', 'Fully Graded', 'Not Auto Graded', and 'All' (which is selected).
- Begin Button:** A large button at the bottom right of the window.

# Setting how to grade

- Navigation Kind
  - Automatic
    - Auto grade all students then exits
  - Manual
    - No auto grading, just opens grading review view
- Automatic and then manual
  - Runs all auto grading then opens the review view

The screenshot shows the 'Grader Assistant Starter' window. It contains several sections for configuring the grading process:

- Module Problem Selector:** Module:  Problem:
- File Browsing:** Download Folder:  Browse to a valid download path (with a 'Browse' button). Text Editor:  (with a 'Browse' button). Diff:  (with a 'Browse' button).
- Onyens:** Starting Onyen:  Ending Onyen:  Go To Onyens:
- Navigation Setter:** Navigation Kind: ☐ Automatic ☐ Manual ☒ Automatic and then manual
- Automatic Navigation Options:** ☐ Animate Grades Animation Pause Time:
- Manual Navigation Filter:** Filter Type:  Filter Options: ☐ Not Fully Graded ☐ Fully Graded ☐ Not Auto Graded ☒ All

A 'Begin' button is located at the bottom right of the window.

# Setting what to see

- Automatic Navigation Options
  - Animate grades
    - Shows the review for each student view during auto grading
  - Animation pause time
    - Time before displaying next student after finishing previous

The screenshot shows the 'Grader Assistant Starter' window. It contains several sections for configuring the grading process:

- Module Problem Selector:** Module: Comp110f14, Problem: (empty dropdown)
- File Browsing:** Download Folder: (empty text field), Text Editor: (empty text field), Diff: (empty text field). Each has a 'Browse' button to its right.
- Onyens:** Starting Onyen: (empty text field), Ending Onyen: (empty text field), Go To Onyens: (empty text field).
- Navigation Setter:** Navigation Kind: Automatic (radio button), Manual (radio button), Automatic and then manual (radio button, selected).
- Automatic Navigation Options:** Animate Grades (checkbox, unchecked), Animation Pause Time: 2 (text field).
- Manual Navigation Filter:** Filter Type: Grading Status (dropdown menu).
- Filter Options:** Not Fully Graded (radio button), Fully Graded (radio button), Not Auto Graded (radio button), All (radio button, selected).
- Begin** button at the bottom.

# Setting what to see cont.

- Manual Navigation Filter
  - Grading Status
    - How graded is the submission?
  - Note Status
    - How much has the grade been explained
  - Letter Grade
    - What grade was recieved

The screenshot shows the 'Grader Assistant Starter' window. It has a title bar with standard window controls. The main content area is divided into several sections:

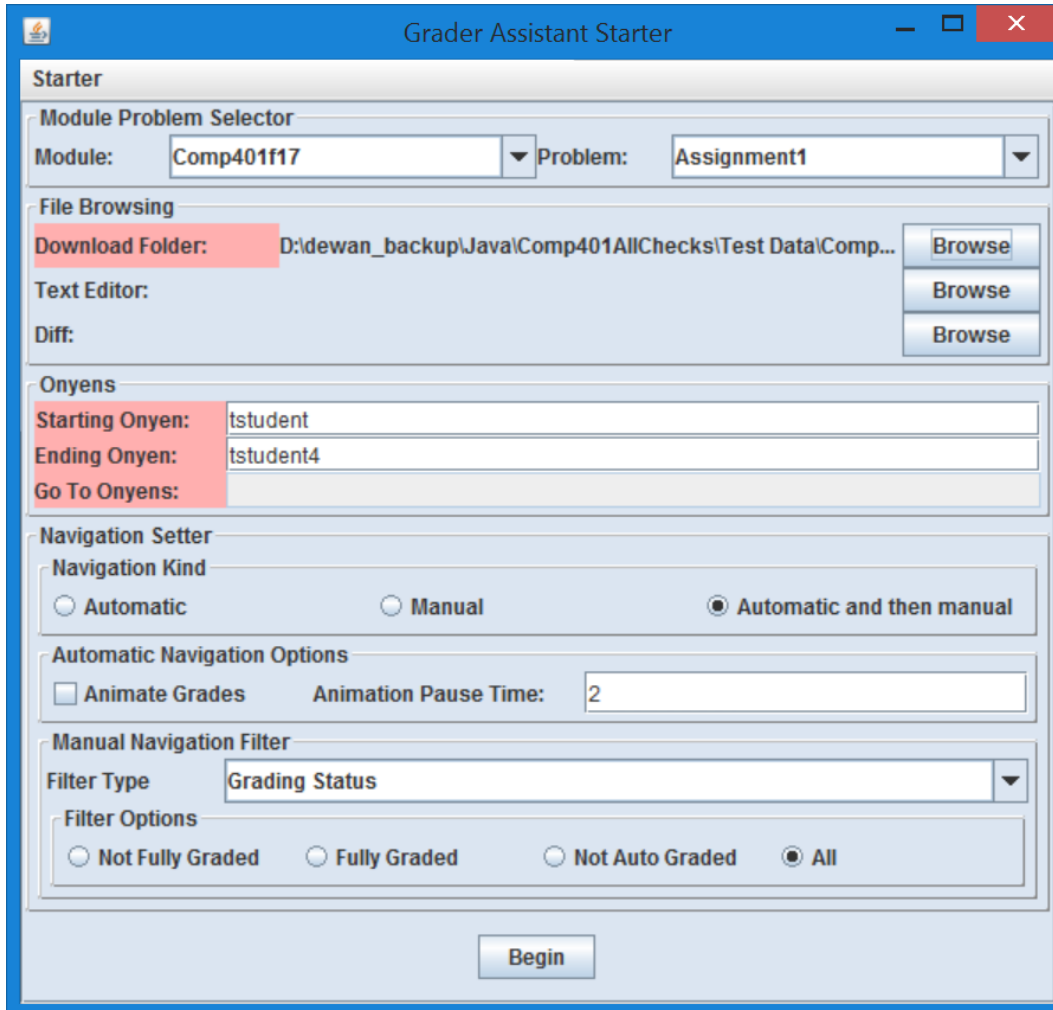
- Module Problem Selector:** Contains two dropdown menus. The 'Module' dropdown is set to 'Comp110f14'. The 'Problem' dropdown is empty.
- File Browsing:** Contains three labels: 'Download Folder:', 'Text Editor:', and 'Diff:'. Each label is followed by a text input field and a 'Browse' button. The 'Download Folder:' label and its input field are highlighted with a red background.
- Onyens:** Contains three labels: 'Starting Onyen:', 'Ending Onyen:', and 'Go To Onyens:'. Each label is followed by a text input field. The 'Starting Onyen:' and 'Ending Onyen:' labels and their input fields are highlighted with a red background.
- Navigation Setter:** Contains a 'Navigation Kind' section with three radio buttons: 'Automatic', 'Manual', and 'Automatic and then manual'. The 'Automatic and then manual' radio button is selected. Below this is an 'Automatic Navigation Options' section with a checkbox for 'Animate Grades' (which is unchecked) and a text input field for 'Animation Pause Time' set to '2'.
- Manual Navigation Filter:** Contains a 'Filter Type' dropdown menu set to 'Grading Status'. Below this is a 'Filter Options' section with four radio buttons: 'Not Fully Graded', 'Fully Graded', 'Not Auto Graded', and 'All'. The 'All' radio button is selected.

A 'Begin' button is located at the bottom right of the window.

# Grading

- Run `gradingTools.Comp401Driver` from `Comp401AllChecks`
- Select Relevant course (e.g. `Comp401f17`) in the “Module” dropdown
- Set “Download Folder” to assignment directory
- Select the correct assignment in the “Problem” dropdown
- Enter first and last onyen to grade
- Set “Navigation Kind” to “Automatic and then manual”
- Select “Begin”

# Pressing Begin on Test Data



The screenshot shows the 'Grader Assistant Starter' window. The 'Module Problem Selector' section has 'Module' set to 'Comp401f17' and 'Problem' set to 'Assignment1'. The 'File Browsing' section has 'Download Folder' set to 'D:\dewan\_backup\Java\Comp401AllChecks\Test Data\Comp...' with a 'Browse' button. The 'Text Editor' and 'Diff' sections also have 'Browse' buttons. The 'Onyens' section has 'Starting Onyen' set to 'tstudent', 'Ending Onyen' set to 'tstudent4', and 'Go To Onyens' is empty. The 'Navigation Setter' section has 'Navigation Kind' set to 'Automatic and then manual'. The 'Automatic Navigation Options' section has 'Animate Grades' checked and 'Animation Pause Time' set to '2'. The 'Manual Navigation Filter' section has 'Filter Type' set to 'Grading Status' and 'Filter Options' set to 'All'. A 'Begin' button is at the bottom.

Grader Assistant Starter

Starter

Module Problem Selector

Module:  Problem:

File Browsing

Download Folder:

Text Editor:

Diff:

Onyens

Starting Onyen:

Ending Onyen:

Go To Onyens:

Navigation Setter

Navigation Kind

☐ Automatic ☐ Manual ☒ Automatic and then manual

Automatic Navigation Options

☒ Animate Grades Animation Pause Time:

Manual Navigation Filter

Filter Type

Filter Options

☐ Not Fully Graded ☐ Fully Graded ☐ Not Auto Graded ☒ All



# Missing Checkstyle File in Automatically or Manually created directory

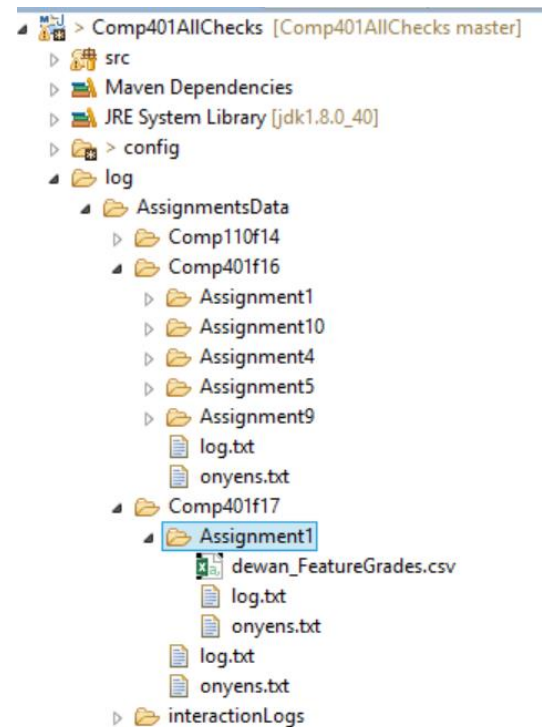
ObjectEditor (Version 22, built on Thu Feb 16 12:15:26 EST 2017). Copyright Prasun Dewan, 2012, All rights reserved. US Patent Appl. No.: 12/532,327

```
W***Could not find checkstyle  
file:D:\dewan_backup\Java\Comp401AllChecks\.\log\AssignmentsData\Comp401f17\Assignment1\unc_checked_401_f17_a1.xml
```

```
W***Using default checkstyle file:config/checks.xml
```

```
Searching for onyens between:tstudent->tstudent4
```

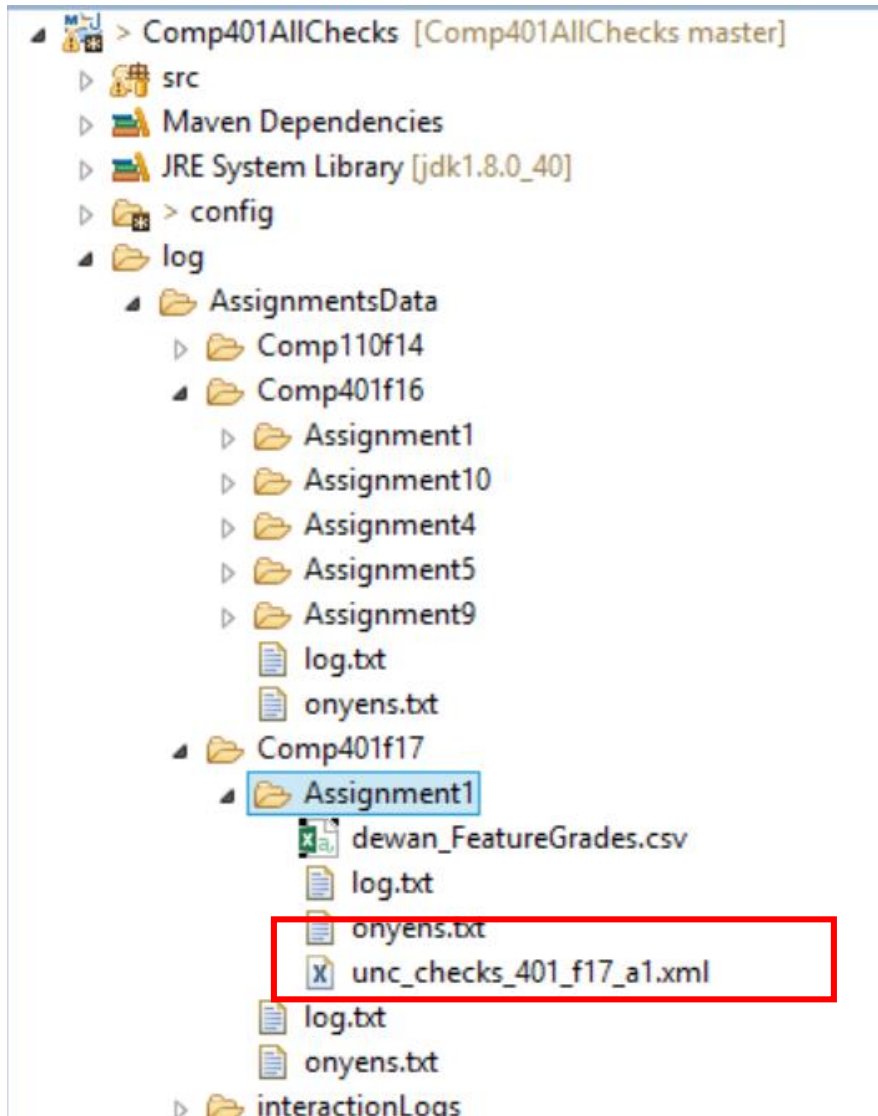
```
Found start onyen:Test, Student(tstudent)
```



# Download checkstyle file from course page

Scanning	<a href="#">PowerPoint PDF YouTube Mix</a>	<a href="#">Docx PDF Drive</a>	<a href="#">Scanning Visualization</a>	<a href="#">A1. Number Scanner</a> <a href="#">A1. Checks File</a>	<a href="#">lectures.scanning Package Git (Scanning)</a>
Class Dual Role	<a href="#">PowerPoint PDF YouTube Mix</a>	<a href="#">Docx PDF Drive</a>		<a href="#">A2. Number And Word Scanner Bean</a> <a href="#">A2. Checks File</a>	<a href="#">lectures.class_dual_roles.statics Package Git (Static)</a> <a href="#">lectures.class_dual_roles.instances Package Git (Instances)</a>

# Checks file in log folder

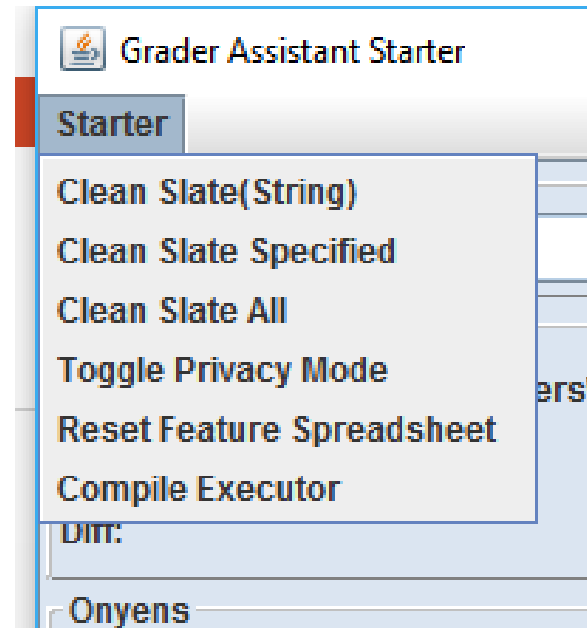


# How do you know checkstyle ran

```
Running command: java com.pupppycrawl.tools.checkstyle.Main -c
D:\dewan_backup\Java\Comp401AllChecks\.\log\AssignmentsData\Comp401f17\Assignment1\unc_checks_401_f17_a1.x
ml D:\dewan_backup\Java\Comp401AllChecks\Test Data\Comp401F17\Assignment1\Test,
Student(tstudent3)\Submission attachment(s)\Assignment1-Semion\Assignment1\src
Running in folder: D:\dewan_backup\Java\Comp401AllChecks\
$
Process line:Starting audit...
Starting audit...
Process line:D:\dewan_backup\Java\Comp401AllChecks\Test Data\Comp401F17\Assignment1\Test,
Student(tstudent3)\Submission attachment(s)\Assignment1-Semion\Assignment1\src\main\Assignment1.java:0:
expectedTypes: Expected type names/tags [main.Assignment1, ScanningIterator//EC]
D:\dewan_backup\Java\Comp401AllChecks\Test Data\Comp401F17\Assignment1\Test, Student(tstudent3)\Submission
attachment(s)\Assignment1-Semion\Assignment1\src\main\Assignment1.java:0: expectedTypes: Expected type
names/tags [main.Assignment1, ScanningIterator//EC]
Process line:D:\dewan_backup\Java\Comp401AllChecks\Test Data\Comp401F17\Assignment1\Test,
Student(tstudent3)\Submission attachment(s)\Assignment1-Semion\Assignment1\src\main\Assignment1.java:1:
warning: missingMethodCall: (Assignment1.java:1) has not made expected call (.*)!hasNext:->boolean//EC
D:\dewan_backup\Java\Comp401AllChecks\Test Data\Comp401F17\Assignment1\Test, Student(tstudent3)\Submission
attachment(s)\Assignment1-Semion\Assignment1\src\main\Assignment1.java:1: warning: missingMethodCall:
(Assignment1.java:1) has not made expected call (.*)!hasNext:->boolean//EC
Process line:D:\dewan_backup\Java\Comp401AllChecks\Test Data\Comp401F17\Assignment1\Test,
Student(tstudent3)\Submission attachment(s)\Assignment1-Semion\Assignment1\src\main\Assignment1.java:1:
Audit done.
setEarlyLatePoints:Setting Late Penalty:tstudent3 score 1.05
```

# Note: clean slate to regrade onyens

- Previously graded assignments will not be auto graded again
- Clear old grading with clean slate under “Starter”
  - Clean Slate(String)
    - Enter onyen to be cleared
  - Clean Slate Specified
    - Clears based on onyen range in UI
  - Clean Slate All
    - Clears all students



# Result UI Overview

Grading Assistant to Andrew for Assignment1

Grading Assistant

Main Source Feedback Problem History Source Checks Student History

Onyen: tstudent4  
Name: test, student  
Feature Total: 88.0  
Source Points: 0.0  
Multiplier: 1.05

No Photo

Next Previous Quit  
Open Source Explore Source Sync  
Next Document First Document Run

☒ Stop If Not Done Navigation Distance: 1/1

Overall Notes

Grading Features

	Feature	Max	Score	Manual	Extra	Graded	Full Credit	Validate	Selected
1	ScanStringTestSuite:ScanString functions co	15.0	15.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	ScanningIteratorSuite:Scanning Iterator	30.0	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	MultipleTokenSuite:Can process multiple tok	30.0	30.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	InvalidCharacterSuite:Handles Invalid Charac	10.0	10.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	TerminatesWithStartingPeriodSuite:Terminat	5.0	5.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	IndexOfNotTestSuite:IndexOfNot functions co	5.0	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	IndexOfTestSuite:IndexOf functions correctly	18.0	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	TerminatesWithPeriodLineSuite:Handles Sp:	5.0	5.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	SingleTokenSuite:Can process a single toke	10.0	10.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	VariableSpaceSuite:Handles Variable Space:	5.0	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	Required Methods Called in Main or Iterator	15.0	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	IndexOf Called in Iterator	5.0	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	IndexOfNot Called in Main	3.0	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	IndexOfNot Called in Iterator	3.0	3.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	Iterator Methods Called in Main	10.0	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Screenshots enclosed	5.0	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	Screenshots show tests	10.0	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	Illegal import or call	-25.0	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Auto Notes:

Manual Notes:

Transcript

# Tabs

- Main
  - Grading results
- Source
  - Submitted source code
- Feedback
  - Textual representation of grading results
- Problem History
  - Grading results of other students
- Source Checks
  - Checkstyle output
- Student History
  - Previous results for current student

# Main tab overview

Grading Assistant to Andrew for Assignment1

Grading Assistant

Main Source Feedback Problem History Source Checks Student History

No Photo Onyen: tstudent4  
Name: test, student  
Feature Total: 88.0  
Source Points: 0.0  
Multiplier: 1.05

Next Previous Quit  
Open Source Explore Source Sync  
Next Document First Document Run  
☒ Stop If Not Done Navigation Distance: 1/1

Overall Notes

Grading Features

	Feature	Max	Score	Manual	Extra	Graded	Full Credit	Validate	Selected
1	ScanStringTestSuite:ScanString functions co	15.0	15.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	ScanningIteratorSuite:Scanning Iterator	30.0	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	MultipleTokenSuite:Can process multiple tok	30.0	30.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	InvalidCharacterSuite:Handles Invalid Charac	10.0	10.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	TerminatesWithStartingPeriodSuite:Terminat	5.0	5.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	IndexOfNotTestSuite:IndexOfNot functions co	5.0	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	IndexOfTestSuite:IndexOf functions correctly	18.0	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	TerminatesWithPeriodLineSuite:Handles Sp	5.0	5.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	SingleTokenSuite:Can process a single toke	10.0	10.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	VariableSpaceSuite:Handles Variable Space	5.0	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	Required Methods Called in Main or Iterator	15.0	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	IndexOf Called in Iterator	5.0	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	IndexOfNot Called in Main	3.0	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	IndexOfNot Called in Iterator	3.0	3.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15	Iterator Methods Called in Main	10.0	0.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	Screenshots enclosed	5.0	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	Screenshots show tests	10.0	0.0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	Illegal import or call	-25.0	0.0	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Auto Notes:

Manual Notes:

Transcript



# Upper Left—Student Overview

- Onyen
- Name
- Score
- Early/late submission score multiplier

# Upper Right—Navigation

- Next/Previous
  - Move to next/previous student's grading
- Quit
  - Close grader (all grading saved)
- Open Source/Explore Source
  - Open submitted source files in text editor
- Sync
  - Save changed to text fields and submitted source files.

# Upper Right—Navigation cont.

- Next Document
  - Open next submitted document (pictures, text files, etc.)
- First Document
  - Resets “Next Document” queue to first document
- Run
  - Runs the submitted program allowing interaction
- Stop If Not Done
  - Prevents closing the grader if grading is incomplete on any student
- Navigation Distance
  - Current and total assignments graded

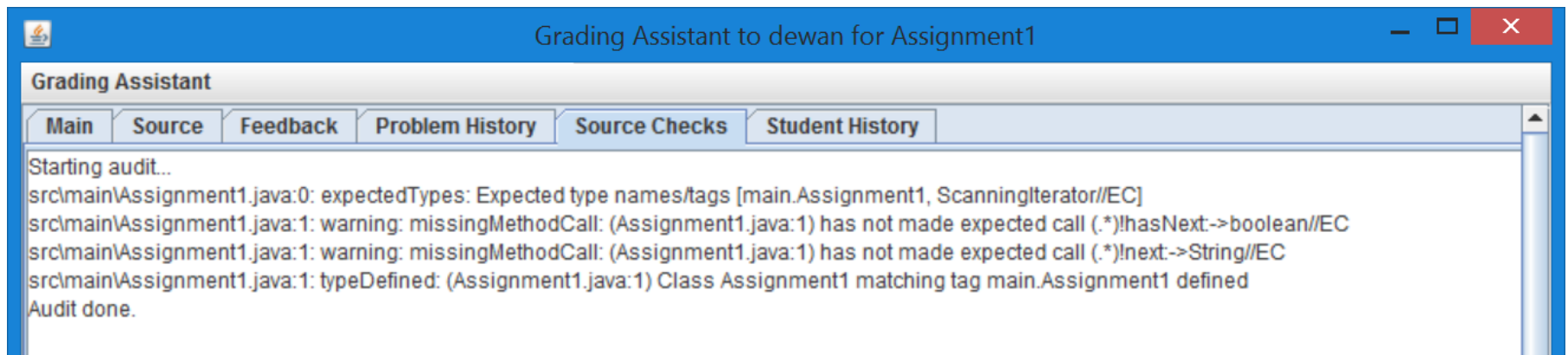
# Middle—Grading results

- Feature
  - Name of test
- Max/Score
  - Maximum and actual points awarded
  - Score can be manually changed
- Manual
  - If must be manually graded
- Extra
  - Is extra credit?
- Graded
  - Has been graded?

# Middle—Grading results cont.

- Full Credit
  - Auto graded as full points
  - Sets feature to full credit
- Validate
  - Marks low scoring feature as being verified as graded properly
- Selected
  - Display output of feature in “Auto Notes”
- Auto/Manual Notes
  - Comments on auto/manual grading
- Transcript
  - Raw output of grading program

# Checkstyle tab



Notes for developers

# Config files— dynamicmodules.properties

- config/dynamicmodules.properties
- Automatically generated by grader
- List of modules for grader



# Config files— dynamicconfig.properties

- config/dynamicconfig.properties
- Automatically generated by grader
- Saves values of fields in UI
  - Directories
  - Course
  - Assignments
  - Onyens
  - Etc.

# Config files—.gradersettings

- .gradersettings
- Automatically generated by grader
- Small subset of data from dynamicconfig.properties

# Config files—config.properties

- config/config.properties
- In depth grader runtime controls

# Config files—course.properties

- config/course.properties
- Course-specific settings
- List of courses to display
- Checkstyle config file associations
- Whether checkstyle is used for course

```
8 Comp401f15.checkStyle = true
9 Comp401f16.checkStyle = true
0 Comp410s16.checkStyle = true
1 Comp401f17.checkStyle = true
2
3 Comp401f15.Assignment1.checkStyleFile = unc_checks_401_f15_a1.xml
4 Comp401f15.Assignment2.checkStyleFile = unc_checks_401_f15_a2.xml
5 Comp401f15.Assignment3.checkStyleFile = unc_checks_401_f15_a3.xml
6 Comp401f15.Assignment4.checkStyleFile = unc_checks_401_f15_a4.xml
7 Comp401f15.Assignment5.checkStyleFile = unc_checks_401_f15_a5.xml
8 Comp401f15.Assignment6.checkStyleFile = unc_checks_401_f15_a6.xml
9 Comp401f15.Assignment7.checkStyleFile = unc_checks_401_f15_a7.xml
0 Comp401f15.Assignment8.checkStyleFile = unc_checks_401_f15_a8.xml
1 Comp401f15.Assignment9.checkStyleFile = unc_checks_401_f15_a9.xml
```

# Config files—user- config.properties

- config/user-config.properties
- When running in headless mode the configuration is changed based on command line arguments, the grader makes a copy of the config.properties file with any relevant changes and saves it as this so the default values aren't changed in config.properties