

# AP Computer Science A: Submitting Java Code to Web-CAT

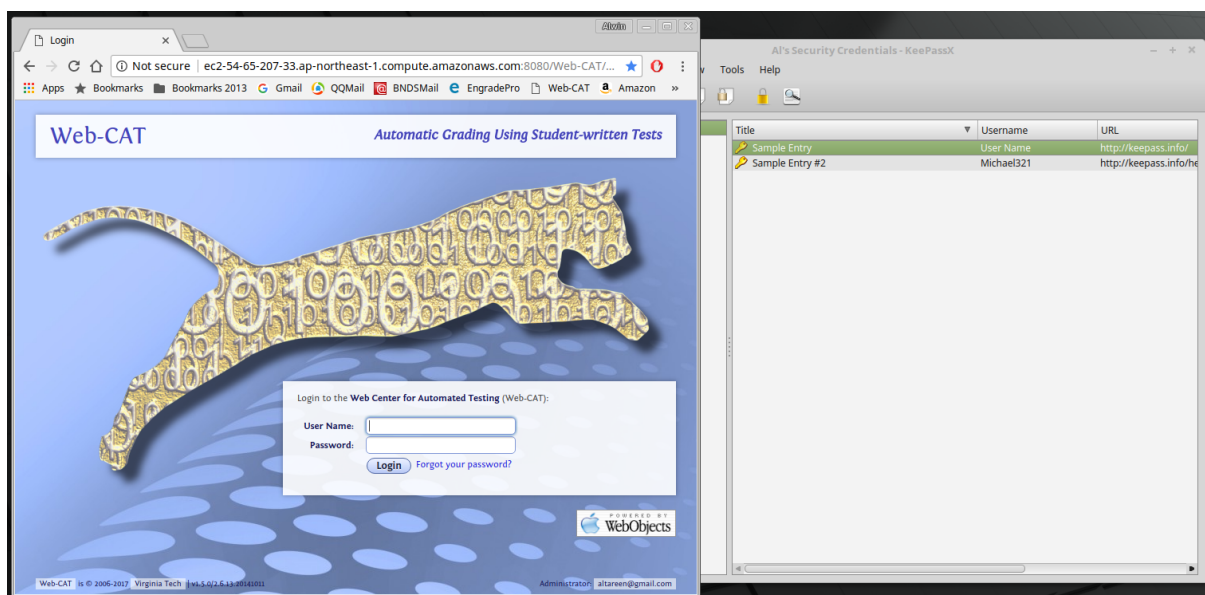
Instructor: Mr. Alwin Tareen

## Task Overview

- Submitting your completed Java program to the Web-CAT automated grading platform.
- Verifying that your Java program passes all of the JUnit tests, and having it record your grade.

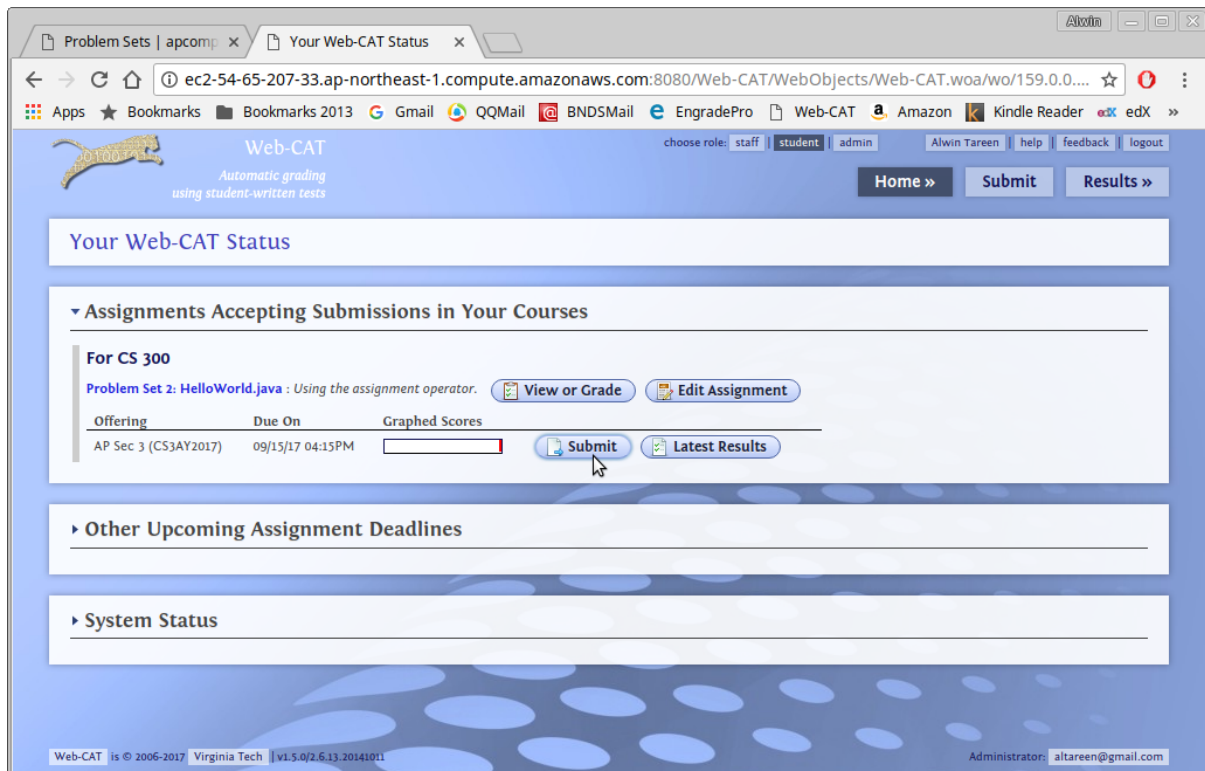
## Logging in to Web-CAT and Submitting your Java Program

- *Note:* You must have the KeePass Password Manager installed, before you can access Web-CAT. If you don't have KeePass installed yet, there are detailed instructions in Problem Set 1. Make sure you have KeePass set up properly before proceeding.
- When you are ready to submit your Java code for grading, go to the Web-CAT site by using the official link on the course webpage. Don't try to navigate by typing Web-CAT into a search engine, because there are many other colleges and universities that use it, and the web interface looks exactly the same for all these institutions.
- In the following screenshot, I have my KeePass application open, and my browser is at the Web-CAT website.

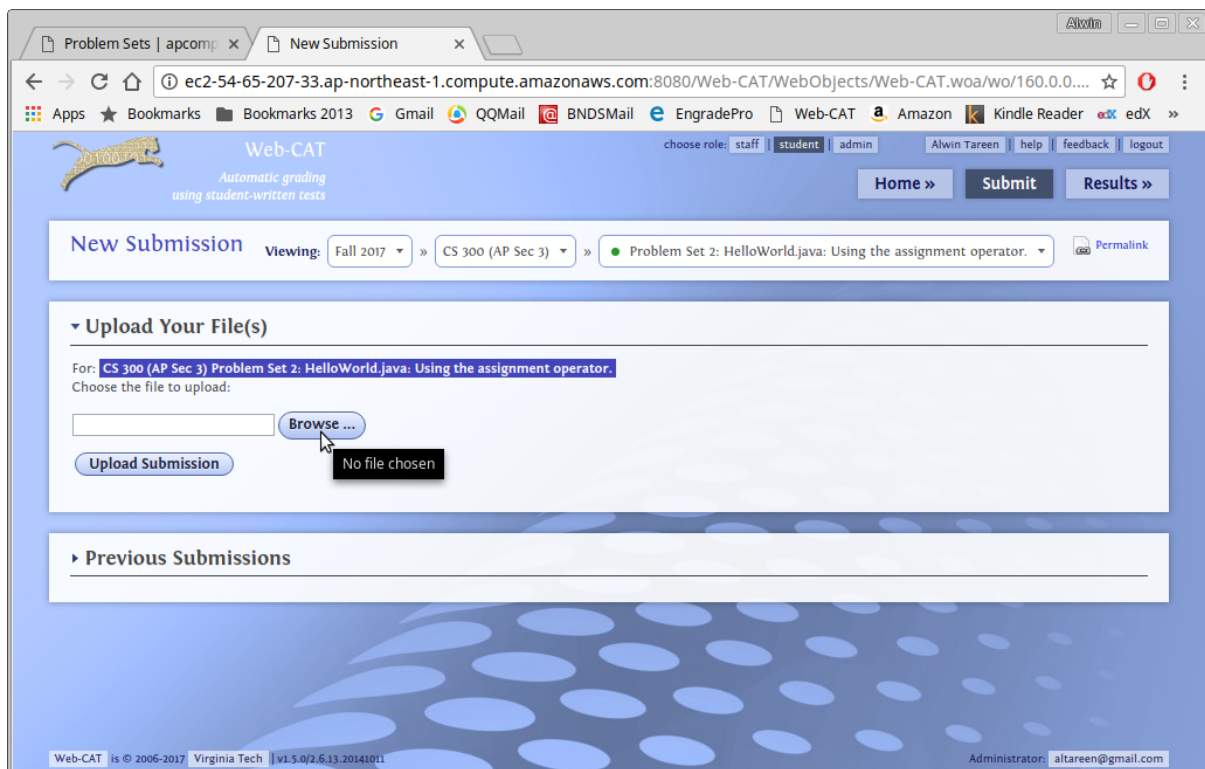


- Place your cursor inside the text box corresponding to User Name. Then, perform the keystroke combination `Ctrl + S`.
- The KeePass application automatically enters your username and password, and then it presses the Enter key. Afterwards, you should be inside your Web-CAT account.

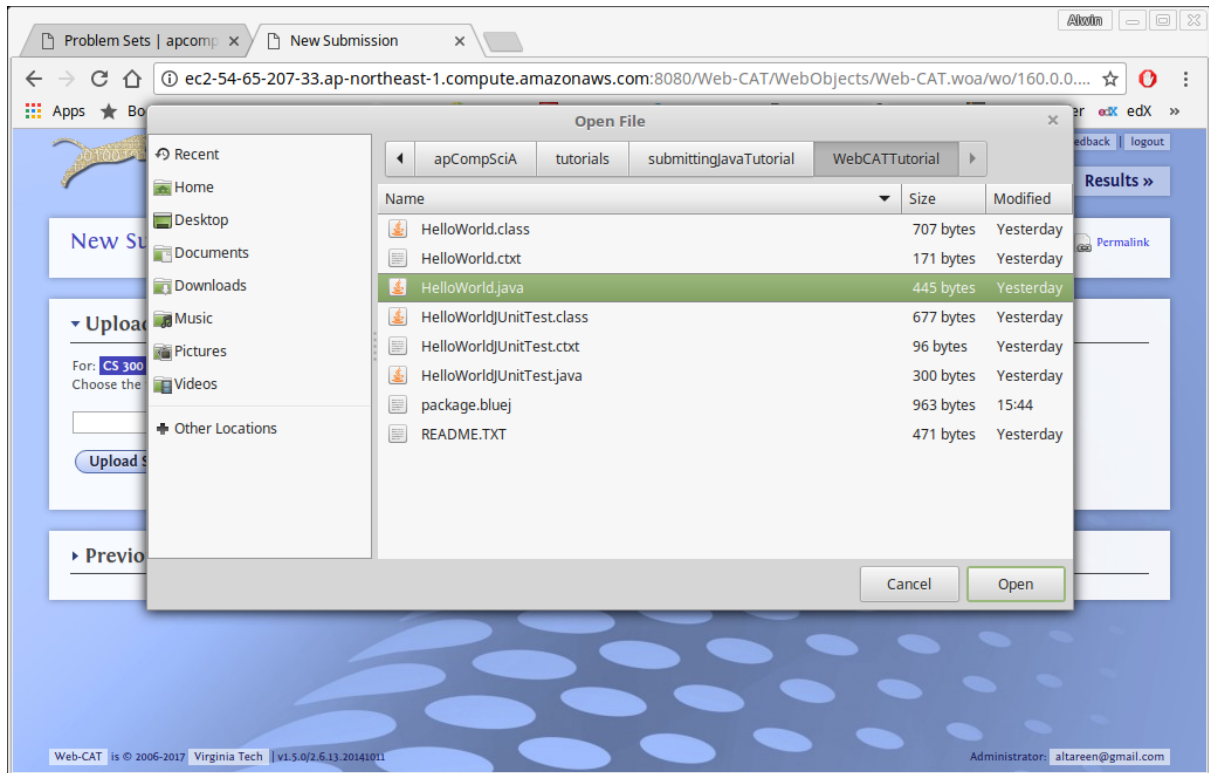
- Once you are inside your Web-CAT account, it should look like the following screenshot. In this example, we are going to submit Java code for Problem Set 2. Click on the Submit button, I have highlighted it with my cursor.



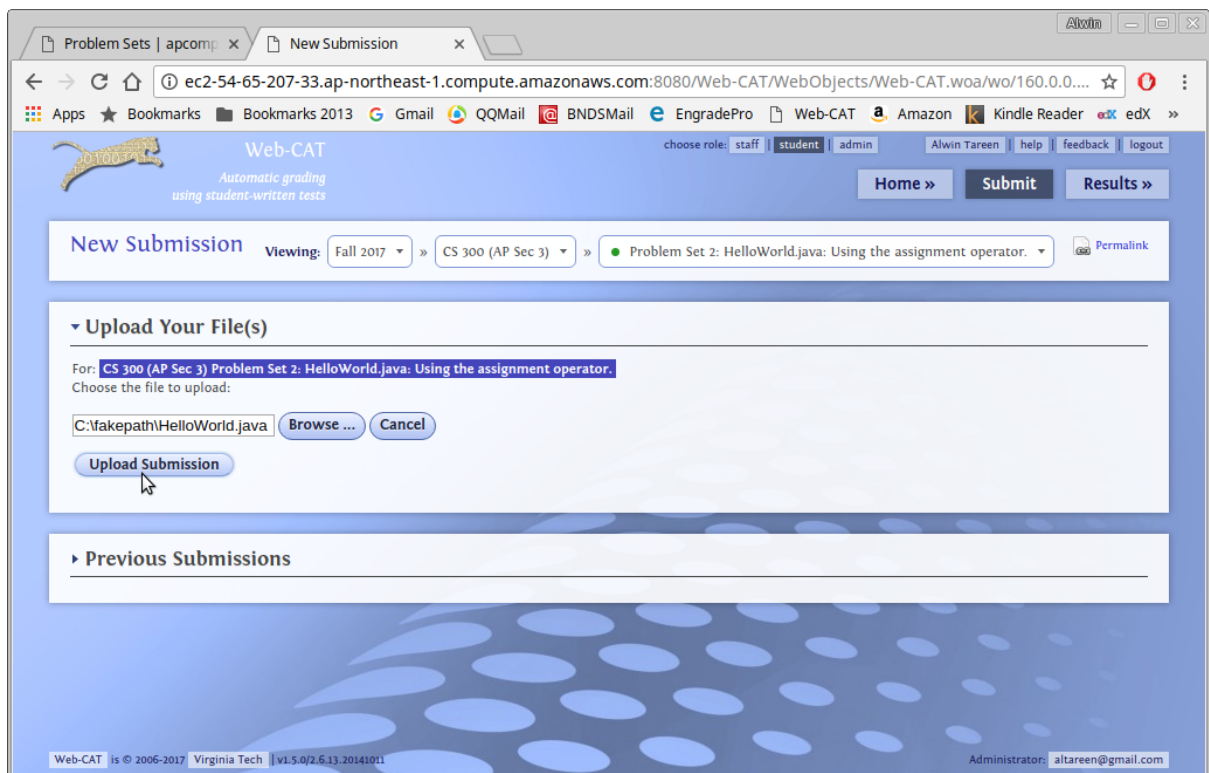
- Now, you should see the following window. Here, we are going to select the Java code from our computer. Click on the Browse . . . button, which I have indicated with my cursor.



- Then, the Open File window appears. Note that I have selected the file HelloWorld.java which is the Java code for this problem set. Click on the Open button.



- Note that the upload text box now contains the text C:\fakepath\HelloWorld.java. Click on the Upload Submission button to proceed.



- You should see a confirmation message appear. Verify that the file you are submitting is the correct one for this problem set, and then click on the Confirm button. I can see that the file HelloWorld.java is indeed the right one. If you have mistakenly uploaded an incorrect file, then click on the Change File button.

The screenshot shows a web browser window with the URL `ec2-54-65-207-33.ap-northeast-1.compute.amazonaws.com:8080/Web-CAT/WebObjects/Web-CAT.woa/wo/161.0.0...`. The page title is "New Submission". The header includes the Web-CAT logo and navigation links for "Home", "Submit", and "Results". The main content area is titled "Confirm Your Submission" and contains the following text:

For: **CS 300 (AP Sec 3) Problem Set 2: HelloWorld.java: Using the assignment operator.**  
Please make sure that this file constitutes your full submission, and that you have not accidentally uploaded an incorrect file.

File	Size
HelloWorld.java	445 bytes

Below the table are two buttons: "Change File" and "Confirm". A mouse cursor is hovering over the "Confirm" button.

At the bottom of the page, there is a footer with the text: "Web-CAT is © 2006-2017 Virginia Tech | v1.5.0/2.6.13.20141011" and "Administrator: altareen@gmail.com".

- Then, you should see the following grading window. This indicates that your Java code has been placed in the grading queue. It takes about 10 seconds for your assignment to be graded, so be patient and **do not click on your browser's Back or Refresh button!** Relax and watch the small animation while you wait.

The screenshot shows a web browser window with the URL `ec2-54-65-207-33.ap-northeast-1.compute.amazonaws.com:8080/Web-CAT/WebObjects/Web-CAT.woa/wo/166.0.0...`. The page title is "Your Assignment Submission Results".

**Web-CAT**  
Automatic grading using student-written tests

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[Home](#) [Submit](#) [Results](#)


**Your Assignment Submission Results**

Viewing: [Fall 2017](#) » [CS 300 \(AP Sec 3\)](#) » [Problem Set 2: HelloWorld.java: Using the assignment operator.](#) [Permalink](#)

**Result Summary**

Assignment Name	CS 300 (AP Sec 3): Problem Set 2: HelloWorld.java try #4
Partners	Alwin Tareen (altareen)
Submitted	08/29/17 04:26PM, 16 days, 23 hrs, 48 mins early
Total Score	<Queued>/10.0

**Assignment Queued for Grading**



Submission Status	
Queued jobs	1
Most recent job wait	08 seconds
Your queue position	1
Your estimated wait	07 seconds

Your submission is being processed by the Grader. The grading report will be generated in a few moments. This page will refresh automatically in 15 seconds, or you can [request an immediate page refresh](#).

**Downloadables**

File	Description
<a href="#">HelloWorld.java</a>	Your original submission

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- If your code is correct and passes all of the JUnit tests, then you should see the following screenshot. Note that your score summary indicates 10.0/10.0, and there is a green bar. If you reach this point, then your assignment is complete and your grade has been recorded. You may log out of Web-CAT.

The screenshot shows the Web-CAT interface for an assignment submission. The page title is "Your Assignment Submission Results". The assignment is "Problem Set 2: HelloWorld.java: Using the assignment operator." The user's score is 10.0/10.0, indicated by a green bar. The page includes sections for "Result Summary", "Graphs", "File Details", "Estimate of Problem Coverage (100%)", and "Downloadables".

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[Home](#) » [Submit](#) [Results](#) »

**Your Assignment Submission Results** [Permalink](#)

Viewing: [Fall 2017](#) » [CS 300 \(AP Sec 3\)](#) » [Problem Set 2: HelloWorld.java: Using the assignment operator.](#)

**Result Summary**

[Submit Again](#) [Full Printable Report](#)

Assignment Name	CS 300 (AP Sec 3): Problem Set 2: HelloWorld.java try #4	Score Summary	
Partners	Alwin Tareen (altareen)	Correctness/Testing:	10.0/10.0
Submitted	08/29/17 04:26PM, 16 days, 23 hrs, 48 mins early	Final score:	10.0/10.0
Total Score	10.0/10.0		

Position in class:

**Graphs**

**File Details**

File	Staff Cmts	Staff Pts	AutoGrade Cmts	AutoGrade Pts
HelloWorld.java	0	0.0	3	0.0

**Estimate of Problem Coverage (100%)**

**Downloadables**

File	Description
HelloWorld.java	Your original submission

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- If, however, your Java code has some errors in it, then you will see the following screenshot. At this point, you must open your Java program in BlueJ, correct the error, and then click on **Submit Again** to upload it.

The screenshot shows the Web-CAT interface for a submission. The browser address bar indicates the URL: `ec2-54-65-207-33.ap-northeast-1.compute.amazonaws.com:8080/Web-CAT/WebObjects/Web-CAT.woa/wo/171.0.0...`. The page title is "Your Assignment Submission Results".

At the top, there is a navigation bar with "Home", "Submit", and "Results" buttons. Below this, the current submission is identified as "Problem Set 2: HelloWorld.java: Using the assignment operator." with a "Permalink" icon.

The "Result Summary" section contains two buttons: "Submit Again" and "Full Printable Report". Below these buttons is a table with the following data:

Assignment Name	CS 300 (AP Sec 3): Problem Set 2: HelloWorld.java try #5
Partners	Alwin Tareen (altareen)
Submitted	08/29/17 04:36PM, 16 days, 23 hrs, 39 mins early
Total Score	0.0/10.0

The "File Details" section shows a table with the following data:

File	Staff Cmts	Staff Pts	AutoGrade Cmts	AutoGrade Pts
HelloWorld.java	0	0.0	3	0.0

The "Estimate of Problem Coverage (0%)" section displays "Problem coverage: 0%". A red message states: "Your problem setup does not appear to be consistent with the assignment." Below this, explanatory text reads: "For this assignment, the proportion of the problem that is covered by your solution is being assessed by running a suite of reference tests against your solution. In this case, none of the reference tests pass on your solution, which may mean that your solution (and your tests) make incorrect assumptions about some aspect of the required behavior. This discrepancy prevented Web-CAT from properly assessing the thoroughness of your solution or your test cases. Double check that you have carefully followed all initial conditions requested in the assignment in setting up your solution. The following hint(s) may help you locate some ways in which your solution may be improved:"

- evaluates expression

The "Downloadables" section is currently empty.