

COS125 - Precept 1 (Hello World)

1 Ice Breaker

Fun Facts

Form a group of 3-4. Choose a role below. Record one fun fact about each person.

- **Leader:** Keeps the group on task.
- **Recorder:** Writes down the group's responses.
- **Reporter:** Delivers a report about the group.
- **Checker:** Supervises the other roles.

Questions

What do you hope to get out of this course?

When is the first assignment due? What about the first quiz?

Resources

Check that you can access all of the course resources needed in the first week: [Ed](#), [TigerFile](#) and [PrairieLearn](#).

2 Programming Hands-on!

Hello World

First make sure you have IntelliJ installed (see instructions for [Mac OS X](#), [Windows](#), or [Linux](#)), then download [precept1.zip](#) from the [precept webpage](#), unzip, and open the `precept1` folder with IntelliJ.

Create a new Class called `HelloWorld` and fill it in so that the program prints `Hello, World`. Compile and run. Then upload it to TigerFile using the “Submit!” link for Precept 1 on the precepts webpage.

Click “Check Submitted Files” to run your program and compare it to the class solution. Pay attention to the compiler output, which can include warnings and errors. Then below the compiler output, you can verify which autograder tests your program passes. You should strive to have no compiler warnings or errors and also to pass all test cases. This is how you will submit assignments during the semester, so become familiar with the TigerFile interface and submission checker output.

Command-line Arguments

From within the same `precept1` folder, compile `Mystery.java` then run it with one, two, and three command-line arguments. What happens in each case? What does the program do?

Now open `Mystery.java` and modify this program so that it does something interesting with more command-line arguments.

Calculator

Write a program `Sum.java` that takes in two integer command-line arguments and prints their sum. (You may find the function `Integer.parseInt()` useful.)

Write another program `Quotient.java` that takes in two integer command-line arguments and prints their ratio. Then run it on the following pairs of numbers:

- 4 2
- 5 2
- 1 0

Can you explain the result in each case?

Calculator (with doubles)

Write `QuotientDoubles.java` but use `Double.parseDouble()` to interpret the command-line arguments as doubles instead of integers and run it on the pairs of numbers above. (Feel free to implement `SumDoubles.java` and anything else you feel inclined to!)