

# 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.

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### Questions

What do you hope to get out of this course?

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What is the difference between Computer Science and programming? (Feel free to give your best guess!)

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

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## Resources & Profile Picture

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

Also, please upload a profile picture on Ed! If you're not comfortable showing your face, that's perfectly fine: feel free to upload any image that you like.

## 2 Programming Hands-on!

### Hello World

First make sure you have IntelliJ installed; then download `hello.zip` from the [assignment webpage](#), unzip, and open the `hello` 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 and verify that your program passes the autograder tests.

### Command-line Arguments

Now download `precept1.zip` from the precepts webpage. Unzip and open the project 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?

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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!)