# Lab 3: Floating Point Representation

Due Tuesday, July 21 at 11:59 PM

## Goals for This Lab

By the time you have completed this work, you should be able to:

* Convert floating-point values in decimal to 32-bit IEEE-754 representation (the float type in Java, C, C++...)
* Convert binary floating-point values encoded with the 32-bit IEEE-754 standard to decimal

**Provided files:**

* lab3problems.txt
* collaborators.txt

## Step 1: Edit the lab3problems.txt File

First, study [this](https://kyledewey.github.io/comp122-fall17/lecture/week_2/floating_point_interconversions.html). Then, by using a text editor of your choice, open the lab3problems.txt file. The file contains a series of questions for you to answer. The answers should be placed directly in the file itself. All questions must be answered correctly for full credit. Make sure you save your answers before you exit.

**If you are working with others, record their names in collaborators.txt.** Each collaborator should be listed one per line. If you did not collaborate with anyone, you do not need to edit collaborators.txt.

## Step 2: Turn in Your Answers Using [Canvas](https://canvas.csun.edu)

Log into [Canvas](https://canvas.csun.edu), and go to the COMP 122L class. Click “Assignments” on the left pane, then click “Lab 3”. From here, you can upload your answers in your local copy of lab3problems.txt by clicking the “Submit Assignment” button. **Be sure that the file you upload is named lab3problems.txt, and that it is actually a plain text file.** If you collaborated with anyone else, be sure to also upload your local copy of collaborators.txt. You can turn in the assignment multiple times, but only the last version you submitted will be graded.