To perform this exercise, you will need:

- a PC with Java 8 or better and a good Java IDE
- a network connection
- caffeine is recommended

Normally, this coding exercise would be done in a 50 minute class period, having you work in teams of two or three. There would be some competition for most problems completed in that period, and awards of bonus quiz points (as well as participation credit). Given our current distance requirements, I am going to ask that you prepare yourself to work on the problems (in a nice quiet space) and report back on how long the exercise takes you to do by yourself (it's ok to do in chunks of time or all at once).

You will be working to get a set of Java code to run - you may use notes, slides, internet searches, Stack Overflow, etc. but do NOT use the GitHub repo this code comes from if you stumble into it.

The problem is made up of a set of five Java text files (found in Class Files – proj1.java through proj5.java). Each has a set of questions at the top. For example, the first one says:

```
// 1.  What Pattern is this?
// 2.  Fix all the ??? and make it go.
// 3.  What's a better name for Thing1
// 4.  What's a better name for Thing2
```

So, to finish this problem, you would say which pattern was represented by the code. You would replace all the ??? text with lines of Java needed for the code to execute, and you would provide replacements in the code (probably with a bulk replace command in an editor) for whatever Thing1 and Thing2 are in the standard version of the pattern (especially in the UML patterns we've reviewed).

Once you have it running, you would put your answers in the comments, like this:

```
// 1.  What Pattern is this?              MVC
// 2.  Fix all the ??? and make it go.    Working
// 3.  What's a better name for Thing1    Model
// 4.  What's a better name for Thing2    Controller
```

You can then move on to the next problem in the set. Once you're done with all five problems, put all of the completed code in a single PDF, with the problems in order (maybe paste it all in Word and convert to a PDF or in a text editor that can print to a PDF). Last thing, at the top of the PDF add these lines (with your name and your timing substituted):

Student Name: Bruce Montgomery
Time to Complete: 94 minutes

When you're all done, post that PDF in the assignment slot on Canvas. I will accept them for 3 giant-sized bonus quiz points and a participation credit up until Wednesday April 1 at noon (not an April Fools day joke).

Just before you start, take "the pledge" →
(which is much more fun to do as a group in class, alas…).
Good luck with this challenge! Shout if you have questions!

The pledge:
I, <state your name>,
Will not attempt
To find or search for
By any means
The GitHub repo containing
The original code for this exercise
Because
This is supposed to be
A fun challenge
And that would be lame