1. You might need to talk to other group members or your group computer person for help to start out.
   a. Create a directory for code related to this class, using the command-line functions.
   b. Find your Fortran compiler, and make sure it is accessible from this directory.
   c. Find your favorite text editor, and set it up to color and format code in Fortran mode.

2. Write a new program called ClimateModel1Layer.f90 that adds one layer of atmosphere to your model. The atmosphere should be transparent to shortwave radiation, and 100% absorptive of longwave.
   a. Solve for both the temperature of the atmospheric layer and the temperature of the surface.
   b. Print out both temperatures in Kelvin and Celsius.

2. Write a new program called MyMathSandbox.f90 that demonstrates the following functions which are built-in to Fortran (r is a real number):
   a. sin(r), cos(r), tan(r)
   b. exp(r), log(r), log10(r), sqrt(r)
   c. ceiling(r), floor(r)
   d. mod(r1, r2), sign(r1, r2)