COP2073C Practice Exercise 1

For this exercise, we will create and execute an R script in Rstudio in the Posit cloud environment.

This script will use the following functions: seq (sequence), rep (replicate), and sort.

Use the R help feature for information on these functions, e.g. ?seq
Remember that the help pages sometimes include examples at the bottom of the page.

There are three tasks to complete:

1. Create, store, and display a sequence of values from 5 to -11 that progresses in steps of 0.3.

2. Repeat the vector c(-1,3,-5,7,-9) twice, with each element repeated 10 times, store and display the result, then display the result, sorted from the largest value to the smallest.

3. Create, store, and display a vector containing 15 values in a sequence from 10 to 19.

Use "File/New File/R Script" to create a new file and enter your code, including a commented 4-line ID header (file name, your name, date, and a one-line description) at the top. To store a vector, assign it to a variable. To display it, you can either use the print function or just enter the variable name on a line by itself.

Save your file with a .R extension. To source and run it, you can Ctrl-A to select all, then hit the Run button, or use the Shift-Ctrl-Enter key combination (if you just hit Run, the program will run one line at a time).