Advanced Web Development and Web Scraping
Fall 2018, Assignment #10A – R Tutorial

The package *swirl* (http://swirlstats.com) is an *R* package for learning *R* programming and data science concepts in *R*. For this assignment, you will use the *swirl* package to get an overview of the *R* programming language.

Note that on school computers, you will have to set the library path (preferably to your OneDrive folder or a USB drive), which is accomplished by typing the following within *R*.

```
.libPaths("F:")
```

Note: You will need to set the library path before downloading and/or loading any *R* package.

1. **Install swirl and the R Programming course** by running the following commands from within R:

   ```
   # install swirl
   install.packages("swirl")

   # load the package
   library(swirl)

   # install the R Programming course
   install_course("R_Programming")
   ```

2. **Complete the lesson.** At the start of a new *R* session, you must

   Type *swirl()* to begin, and complete the following lessons:

   1: Basic Building Blocks
   2: Workspace and Files
   3: Sequences of Numbers
   4: Vectors
   5: Missing Values
   6: Subsetting Vectors
   7: Matrices and Data Frames
   ~~8: Logic~~
   ~~9: Functions~~
   10: lapply and sapply
   ~~11: vapply and tapply~~
   12: Looking at Data