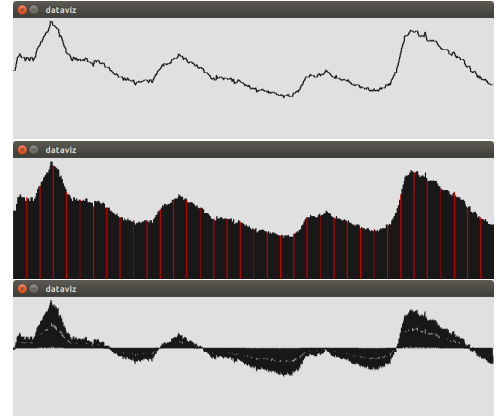**CMSC 157: Object-Oriented Programming Workshop**

Assignment 2: Data Visualization

Due by Class (1:30pm) September 7, 2016

The US Department of Labor collects a variety of economic measures. The Bureau of Labor Statistics makes this data available online http://data.bls.ogv. This assignment asks you to visualize some of that data using Processing. For example, a text file with unemployment rates[a] from January 1980 until December 2015 can be found on moodle. The `loadStrings(file)` function can be used to read in a file of data and return an array for further processing.

[a]http://data.bls.gov/timeseries/LNS14000000

Challenges

Try and accomplish the following items:

- visualize the data by month;

- visualize the data by year (e.g. showing the yearly average, minimum, maximum);

- use text in addition to graphics;

- use animation in some way;

- make the visualization interactive.

Learning Objectives

- Visualize data.

- Review arrays.

Deliverable

Submitting your assignment:

1. Put a comment at the top of your programs with your name, date assignment description, and collaboration statement.

2. Bring a hardcopy of your program (i.e., the source code) to class.

3. Submit a zip file of your program via Moodle. The zip file should expand into a folder named `cmsc157-project2-lastname-firstname` with the Processing sketch inside of that folder.