**Individual HW: Stocks**

Your mission will be to do the following:

1. (50 points) Write a function *getStockData(company)* that takes a company symbol as a string argument and returns these values: the last trade, change, date, open, and previous close. **The default value for company should be “GOOG”**. You will want to use <http://finance.yahoo.com/q?s=GOOG> OR <http://quote.yahoo.com/d/quotes.csv?s=GOOG&f=sl1d1t1c1ohgvj1pp2owern&e=.csv>

but you need to modify it such that the URL can change with the argument *company*.

2. (10 points) Now write a loop to call the function with ten company symbols of your

choice (Search for companies here: <http://finance.yahoo.com/>) and print out the

returned values.

3. (40 points) Use string slicing, split and *datetime* module to convert dates like “2/28/2012” to Feb 28, 2012 and dates like “12/12/2011” to Dec 12, 2011.

Here is the output for one company:

The last trade for GOOG was $583.22 and the change was -$1.51 on July

7, 2014. The open was $583.76 and the previous close was $584.73 .

4. BONUS (20 points): Write another function that reads in a web page and looks for stock symbols. A stock symbol is anything in this sort of format: “NYSE: CMI” or “Nasdaq: GOOG”.

Find all stock symbols in the page, and pass them to your *getStockData* function. A good page to test with is this one: <http://www.fool.com/the-25-best-companies-in-america/index.aspx>

**Submission**

Upload your program (.py) to Oncourse under Assignments -> Assignment 4 (Individual) as a ***.py file***. Name your file as ***YourUsername\_A4\_indiv.py***

e.g. If I were to upload, it would be johfdunc\_A4\_indiv.py

Include the following information as a comment at the top of the file you submit:

 Your name

 Your group number

Test your code on a wide range of inputs!