CS160 Lab 4 Fall 2012
Formatting and File I/O
Due Monday 10/15/2012 at 12:01AM

Create a file named `chaos.py` that solves Programming Exercise 11 on pp. 163-164 with the change that instead of printing to the screen, it sends the output to a file named `output.txt`. Your program must ask you to enter two numbers (between 0 and 1) separated by a comma (i.e., use one input function call) and then the table output must be sent to the file `output.txt` and match the sample formatting exactly as it is in the book. Count the dashes (they are minus signs, not underscores in your output) and have everything line up at the same columns as it does. Below is a same run.

```
enter x1 and x2 separated by a comma: 0.34, 0.35
```

And then the file output.txt contains:

```
index    0.34          0.35
---------------------------
  1    0.875160     0.887250
  2    0.426094     0.390146
  3    0.953698     0.927935
  4    0.172216     0.260799
  5    0.555976     0.751853
  6    0.962780     0.727624
  7    0.139755     0.772931
  8    0.468872     0.684484
  9    0.971221     0.842266
 10    0.109008     0.518130
```

Create a file named `acronym.py` that solves Programming Exercise 10 on p. 198. You must have a main function that calls the `acronym` function. Your `acronym` function must take as one parameter the string and return a string which is the acronym for the string that is passed as the parameter. Your `acronym` function must not have any `input` or `print` function calls. Below is a sample run.

```
enter phrase: random access memory
RAM
```

Each file should have a function named `main` with all the code and then call the `main` function at the bottom of the file. Follow the style of my solutions to the previous labs. Review the lab grading rubric on iLearn to make certain you meet all the specifications.

Remember to put your name, course, and time in comments at the top of each file and comment your code. Using Capital's webmail, email me a message with the subject `CS160-1ATT` for 1PM or `CS160-2ATT` for 2PM with your `chaos.py`, `acronym.py`, and `help.txt` files attached.