Name: _____

CS-698: Scripting Languages

Summer 2016
Python Quiz

Insert your name above. Insert your answers in this quiz file using a text
editor. Save it as pythonquiz.txt.

Email this quiz file plus the 3 programs you are asked to create to
jchung@monmouth.edu.

Partial credit will be given for incomplete programs.

```
*******************************************************************************
```
Problem 1:
(10 points)

a)
See the following Python program which contains 3 errors. Errors
include statements that might be missing.

```python
import sys

# Reads lines of standard input, adds each line to a list,
# prints the list.

for line in sys.stdin
myList.append( line )

print myList
```

Correct the 3 errors in this program, and write the corrected version in the
space below:

b)
In the following code, 'input' represents what type of Python object?

```python
import sys
import re

input = sys.stdin.readlines()
```

c)
In the following code, 'input' represents what type of Python object?

```python
import sys
import re
```

```
    input = sys.stdin.read()
```

d)
In the following code, 'ny' represents what type of Python object?

```
    import re

    str = "straight"

    ny = re.findall('[aeiou]', str)

    if ( ny ):
        print "yes"
```

```
*****************************************************************************
Problem 2:
(10 points)
```

You should have a file called 'english.sorted' from previous exercises. If
not, get it from http://bit.ly/295GYlY.

Write and save the program 'prob2.py' to output all words in 'english.sorted'
that begin with an uppercase letter.

References:
   . Perl quiz, Problem 3

```
*****************************************************************************
Problem 3:
(12 points)
```

Get the input file for this problem at http://bit.ly/28Uqkdv. Save it as
'sp08cs'. It contains html code extracted from webadvisor's CompSci Dept. time
table from a past semester.

Write and save the program 'prob3.py' to output all lines in 'sp08cs' that
pertain to undergraduate CS courses (all lines that contain "CS-1", "CS-2",
"CS-3" and "CS-4").

Your program's output must contain no HTML code, except

Use Python regular expression handling. The only imports allowed are:

```
    import sys
    import re
```

Hints: A portion of a PERL version of this program might look like this:

```
        while ( my $class = <STDIN> )
        {
           if $class =~ /CS-[1-4]/
               # ... code omitted ...
        }
```

        Your program's output must be similar to what is shown at:
        http://bit.ly/28R37oh

  References:
     . Section of the Python notes on "Python & regular expressions"

  ****
  Problem 4:
  (10 points)

  Write 'prob4.py' to output the total number of words in the 'english.sorted'
  file that begin with 'A' or 'a'.

  Don't display the words; display only the total number of words that begin with
  'A' or 'a'.

  The program must read 'english.sorted' as a file object, not through standard
  input.

  Use Python regular expression handling. Your program must use a regular
  expression pattern object for this problem.

  References:
     . Section of the Python notes on "Python Syntax - files (not stdin)".
     . Section of the Python notes on "Python & regular expressions"