Homework 1

- 1. Write a function called <code>vowelcount()</code> that takes a string as an argument, and returns the number of vowels in the string. Test it, e.g. <code>vowelcount('hEllo')</code>, <code>vowelcount('wOrld')</code>. It should ignore whether the vowels are captial or lowercase.
- 2. Write a function called metric() that takes two numbers x and y, prints their difference and sum in a single clear message (e.g. difference is 1, sum is 5), and returns the difference divided by the sum. Test it, e.g. metric(2, 3), metric(10, 0.1). What happens if the sum is 0? What can you do to handle that case?
- 3. Write a function called multtable() that takes a number n and prints out the multiplication table for integers 1 through n. Hint: use two for loops, each with a different loop variable. Bonus: check the help for print() to figure out how to print each row in the table in a single horizontal line.

Use docstrings and good style!

Write the above functions in a file named homework1.py, and submit via email to m.spacek@lmu.de before class 3 (April 24).