Name ________________________________

Instructions, include name, **BOLD** your answers. All questions apply to Pythons.

1) What are the three basic data types that Python uses? How are they differentiated?

2) By default a Python scalar is always a ______________.

3) What method is used to specify math that uses decimal places?

4) What is the difference between range and xrange?

5) What is the difference between Function, a module and a class?

6) How can you determine the number of elements in a list? Show an example of Python determining number of elements in list names to the scalar numnames.

6) What is the value of a Python string variable when it is first used?

7) What is the difference from an list and a dictionary?

8) Using the range operator (..) create a list array with the following elements: 1, 5, 6, 7, 10, 11, 12. Create a print command to display the last element in array.

9) Write a Python statement to:
   Create an associative array *artists* that holds a list of five hip-hop music artists – “Kanye West”, “50 Cent”, “Biggie Small” “Tupac Shakur” “Vanilla Ice” and a rating for them - "good," "bad," and "mediocre" as the ratings. Which is the key? Which is the value?

10) What are the Python loop control keywords?

Extra Credit) Create a Perl program that uses a function to request to two numbers from the user interactively, subtract two numbers and multiply the result by four and print the results.