Exercise: Python Introduction

Open the Python console: Tools -> Python Console

1. Find the area of a triangle that is 3 ft tall and 4 ft at the base (A=bh/2)
2. Determine, if there are 50 cookies and 7 people, how many whole cookies each person gets and how many cookies remain. Convince Python to give you the exact answers as integers.
3. Compute the sin of 45 degrees. Compute sqrt(2)/2 to check your answers
4. Count all the numbers from 1 through 1001 that are not multiples of 3 or 5 (e.g., 1,2,4,7,8,11,…998,1001)
5. Create a list containing all the numbers you counted in Problem 4.
6. Write a method that prints "Good morning, \_\_\_\_\_" with a specified name
7. Create a Python file. In the file, write a method to generate the list from Problem 5. Put the word pass on the last line of the file. Set a breakpoint on this line. Run the debugger. When you come to the breakpoint, switch to the Debugging Console.
8. To your file, add a method that returns the minimum and maximum values from a list in a tuple. Test this method by restarting the debugger and passing in the list returned by the method you wrote in Problem 7.
9. Determine the type of int. Set i = 3. Determine the type of i.
10. Find the 50th prime number. (2 is the 1st prime number)