

CSE 101 - Introduction to Programming

Tutorial 4

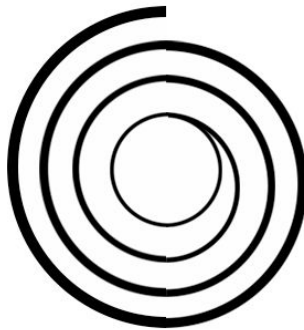
Topics: Modules and Functions, Importing and using functions from modules, Defining and calling functions, simpleGraphics, Some good practices authorship comments and docstrings specifications, Using help()

Q1. Create a module with functions defined for the following:

- Calculate euclidean distance, taking x_1, y_1, x_2, y_2 as arguments
- Calculate manhattan distance, taking x_1, y_1, x_2, y_2 as arguments

Include docstrings for functions describing the formula used.
Import this module in a script and call these functions.

Q2. Draw the following spiral using SimpleGraphics.py



Q3. Generate the following 'stars' using SimpleGraphics.py

a)



b)



Q4. Write a Python program to swap the values of two variables with and without using a temporary variable. Use a function call for doing so. Also notice how it affects the actual arguments passed.