Available online as http://www.cs.ucsb.edu/~pconrad/cs16/10S/homework/H04—printable PDF

Name:

(4 pts)

Lab Section (2 pts)—circle one:

9am 10am 11am noon unknown

(Note: For now, circle the lab section you are registered for on GOLD. If you need to request attendance at a different lab section because of an

CS16, 10S, **H04**, due **Wed Lecture 04.07**—Prep for lab02, Simple function definitions (handout)—Total Points: 50

This assignment is due IN Lecture on Wednesday, 04.07. It may ONLY be submitted Lecture, in Chem 1171 at 1pm on Wednesday. You must come IN PERSON to turn it in during your assigned Lecture section.

Late Policy: No email submission allowed—and don't "slip it under my door". If you need to make it up, you must do so during office hours, or make an appointment to see me, and you must request this appointment within 48 hours of when the assignment was originally due.

Personal Day/Sick Day policy: Everyone is permitted one "personal day/sick day" when you get to make up a missed homework assignment for free during office hours or via appointment. After that, you may not make up the homework assignment—you can only earn back the points through extra credit opportunities.

(For more details, see the syllabus and the homework policy)

For this assignment, the reading is a handout that was distributed in lecture, and is also available online at this link:

http://www.cs.ucsb.edu/~pconrad/cs16/10S/homework/H04/handout

ACTUAL SCHEDULE CONFLICT, please email pconrad@cs.ucsb.edu with details)

Once you've read that handout, write answers to the questions on the reverse side of this sheet (use the <u>PDF</u> <u>link</u> to print a copy of this if you weren't in class).

1. (10 pts) Write a C function definition for a function called areaOfTriangle that returns the area of a triangle as a real number. The function should take two parameters that are both real numbers, namely base and height. The formula for area of a triangle is 1/2 base times height.

Please turn over for more questions to answer

Continued from other side

2.	(10 pts) Write a C function called howManyEggs that return an integer. The function should take an integer parameter called dozens, and returns the value of that parameter, multiplied by 12.
2	
3.	(10 pts) Write a C function that takes the radius of a circle as a parameter (a real number) and returns the area of that circle. Use the value 3.14159 for pi.
	(Note: in a real program we'd probably want to use 3.141592653589793238462643—that's more like the accuracy that a double value can hold, but that's too much to expect you to write out for a homework assignment.)
4.	(10 pts) Write a C function that takes a value in inches and returns the corresponding value in centimeters. You choose an appropriate name, and a name for the parameter. The conversion factor is $1 \text{in} = 2.54 \text{ cm}$.
End	of H04