

CS101 Homework 1-23-2022

- Save your code as `lastname_homework.py` and submit on Google Classroom.
- Please, run your code before submitting.
- If you get an error, try to fix it before submitting your homework.
- If you get help from anyone, please, make sure that you actually understand the solution.

General

For all of the tasks below, you are asked to create a function AND test it: that is, show that it works by creating an example of your own.

Task 1

Create a function that accepts a name as the argument and prints the following greeting: “Hello, <NAME>! How are you?”

Task 2

Create a function that asks the user for their name and prints the following greeting: “Hello, <NAME>! How are you?”

Task 3

Create a function that accepts a number from the user and *prints* three values: the power of 2, 3, and 4 of this number.

Task 4

Add error handling to the function above (for example, if the user does not provide a number).

Task 5

Further improve the function above. Make sure that it also *returns* the three values (power of 2, 3, and 4) as a list.

Task 6

Create a function that accepts two lists of equal size and generate a dictionary based on the two lists (the first list is a list of keys, and the second is a list of values). Print the dictionary and also return it.

Task 7

Add error handling to the function above (for example, if improper lists are provided by the user).