

CS 101A Homework #7

Due: 11/7/2020, 9:00 pm

Please read the items below carefully:

Create a new Python script file and name it *yourlastname_homework7.py*, where *yourlastname* is your last name. Save your file in your homework folder on your computer (a folder that you can easily find). When finished, upload your file on Google Classroom using Homework 7 assignment link.

I should be able to run your complete code without errors.

Task 1.1

Use the following list for this question:

```
a = [3.14, "Apple", "Orange", 11, 9, 2019, "Apple", 3.14]
```

Print all numbers from the list; for strings print “NaN” (Not a Number).

Task 1.2

Write an algorithm to find the largest number in the list and print its value (use f-strings). If there are no numbers in the list, notify the user.

Task 1.3

Create two separate lists: (1) *nums*, a list of all numbers from *a*, and (2) *words*, a list of all strings from *a*. Print both lists.

Task 2.1

Create a list of any three countries, where each element is the country name. Print the list of countries for the user and ask if there is a country that the user would like to add to the list. Use the input to add the fourth country to your list.

Task 2.2

Assume that the user does not know which countries are in the list. Let the user inquire if a country is in the list and provide a response to the user (either “yes, it is in the list” or “no, it is not in the list”).

Task 2.3

Using for loop and f-string print the name of each country and how many characters are in its name.

Task 2.4

Write a code to delete those countries from your list with names that have an even number of characters in their name (e.g., “Canada”). Print the list before and after deletions.