**Programming as a Way of Life  
Homework 6 Problems**

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**Problem 3 (What is Assert doing?)**

In your homework file, define a = 5 and b = 5.  
Then add “assert a == b”   
  
What is the code giving you?  
  
Now change b = 10  
  
What is the code giving you?   
  
What exactly is assert verifying in this step?

**Problem 4 (Defining a function and calling a function)**

Add C = 2 to the list of variables to problem 1.

Create a function that gives the sum of “X” and “Y” then divided it by Z  
  
Call the function by   
  
print dv(a, b, c) to give the result of (a\*b)/c

**Problem 5 (What is the differences of Tuples, Lists, Dictionaries)**Create a Tuples list with 4 child name   
**reminder**: tuples uses []  
Notes:  
\* Tuples are mutable therefore you cannot change the values once its set.

Create a Lists with 4 child ages   
  
Notes:  
**reminder**: list uses ()  
to add to a list we use .append(‘value’) to add to a list  
to delete a list we use: del name[index]

Create a Dictionary list with mother phone number   
Notes:  
**reminder**: dictionary use {}  
to add to dictionary we use name[‘associate’] = value  
to delete we use: del name[‘associate’]  
  
  
**Problem 6 (Creating nested list and accessing lists)**

Create list\_a and list\_b with even same amount of variables in there. Make a new list\_c with the sum of list\_a and list\_b indexes.

**Problem 7 ()**

Merge two list