

# Python Homework 1

if you have questions email me! meshko@gmail.com

September 12, 2015

1. Take a look at some Python commands which work with lists here (some of these things we talked about, some will be new to you): <https://github.com/meshko/pintro/blob/master/hw1/lists.py>  
Try to guess what will happen when you run them and then try actually running them.
2. You have a list: [4, 2, 3, 5, 12, 8, 21]. Write a Python command which calculates the sum of all the numbers in this list except the first one and last one (so in this case sum of all numbers except 4 and 21)
3. You can mix different things in a list! For example, [1, 'Masha', 2, 'Ana', 3, 'Misha']. Play with a list like that. What commands work on it and what do not. If something doesn't work, can you explain why?
4. We have seen lists of numbers, like this: [1, 2, 5] and lists of "strings" (words), like this: ["Ana", "Anya", "Masha"]. Can you think of something else we can put into a list? Can you make a list of... ?
5. We played with dictionaries. Dictionaries have keys and values. For example, {'fish': 2, 'ice cream': 3, 'coffee': 12}. We created a dictionary and stored our friends' names and ages in it. Can you think of another example of something that would be nice to store in a dictionary? Make some nice dictionaries please!