

Homework #9 Lists.

Tasks:

1. Create a list containing 4 values of different data types. Go to the classwork slides, or <https://www.programiz.com/python-programming/list>, and scroll down to Python List Methods. Study the listed methods and try to execute them on your list. Illustrate the result and try to explain what the methods do in your own words. Do that in the following way:

```
#create my list
my_list = ['uno', 1, 1.0, True]
#append method
my_list.append('dos')
#append method adds a specified element to the end of the list
print(my_list)
#['uno', 1, 1.0, True, 'dos']
```

Do that for every method listed in the slides.

2. Create two corresponding lists. One containing the names of members of your family, the second one containing their age. Using for loop and index referencing print out the message with the age of the person in the following way:

Misha is 24 years old

Jack is 48 years old

...

3. Write a teacher-assistant program. Create an empty list and using the while loop allow the user to input the names of the students and store them in a list. After each iteration ask the user if there are more students in the class, if the user answers “no” break out of the loop.

Create a second list and ask the user to list the students that are absent from today’s class in a similar fashion as the first list.

Next looping over the absentee list filter out the students that did not attend the class. You might want to use the `indexOf()` method for this, although there are other ways to do that as well.

Finally, print out the message alerting the teacher about the students who were in class.

Output should look something like this:

Mary was in class today

Jack was in class today

...

Happy Thanksgiving to everyone!