Web Engineering

Fall 2020

Lab-04

Date: April 26, 2023.

The objective of this lab is to

1. Practice basic python programming concepts.

2. Utilize built-in python data structures like lists, tuples, and dictionaries.

3. Practice Database CRUD operations.

4. Practice DRY (don't repeat yourself) via functions.

Instructions!

1. This is an individual lab, you are strictly NOT allowed to discuss your solutions with your fellow colleagues, even not allowed to ask how is he/she is doing, it may result tozero marks.

2. You can ONLY discuss this with TAs or Ma'am.

3. Save your work frequently. Make a habit of pressing CTRL+S after every line of code you write.

4. Follow proper coding conventions and put comments where needed.

Write the following classes with the mentioned attributes.

Medicine

- name :str
- company : Company
- formula :str
- price :float

Company

- name :str
- location :str
- owner :Person
- registration_code :str

Person

- name :str
- contact :str
- city :str

Also make table(s) in database so that you can store data and can perform the following operations.

1. Add medicine data in database
2. Show the name and location of a company whose owner name is ---
3. Show name, formula and price of all medicines whose company whose name is ---
4. Show name, formula and price of a company whose price range is --- to ---
5. Delete all the medicines whose formula is ---
   (Remember, different companies make medicines of same formula)
6. Update the location of a company whose registration code is ---

Some Important Points for making table(s)

- contact_no can identify a Person uniquely
- registration_code can identify a company uniquely
- medicine name and company name compositely can identify a medicine uniquely
- Another approach to manage uniqueness in medicine is Make one extra attribute named id which will auto incremented by Database itself.
- Think yourself about where to raise exceptions. Also catch exceptions properly.
- Make proper driver to test your program.

While (not succeed)

Try();