Pharmacy system:

One of the important and necessary things when taking different drugs is to pay attention to the harmful effects that some drugs may have put on top of each other and before taking different drugs at the same time, their effects on each other should be checked Existence, studied.

In this project, four different data files, each containing the following information, will be provided to you:

- The first dataset: contains information about the names of drugs and their prices.

- Second dataset: The second file contains the names of existing diseases.

- The third dataset: The third file contains the name of each drug and a list of tuples of the names of effective drugs and the type of harmful effect.

it is them If the medicinal effect is not written on the other medicine, it means that it does not have a special effect or it has a positive effect that is in

There is no difference between being positive or neutral here.

- The fourth dataset: includes the drug sensitivity of drugs on diseases. (The name of the work does not exist and only in the form of a list of tuples of the name of the drug and the type of effect that is either positive or negative, and in this list the names of the drugs that have an effect on don't have disease, doesn't exist)

We intend to design systems that provide information on drugs, diseases and various drug interactions and the effects of drugs on the disease

examine and display together so that the doctor can make the best decision to prescribe drugs

Remembering the necessary functions:

Your program should be able to provide the following capabilities to doctors:

1. There is a possibility of CRD of a drug on dataset (1) and its effects are applied to datasets (3) and (4).

❖ CRD means the set of Create, Read, Delete operations.

2. The effect of Delete Cascade on the datasets should also be done. That is, if a drug is removed, its effect should be applied to datasets (3), (1) and (4).

3. There is a possibility of CRD of a disease on dataset (2) and the effects of drugs on this specific disease are applied in dataset (4).

4. The effect of Delete Cascade on the datasets should also be done. That is, if the disease is removed, its effect should be applied on datasets (2) and (4).

5. It is possible to search on medicines and diseases.

6. It should be possible to display the effects on diseases and harmful effects of that drug along with the type of effect on other drugs by entering the name of a drug.

7. It should be possible to display drugs that have a positive effect on improving it by entering a disease.

8. When adding a new drug to the drugs dataset, select a number of drugs from the existing drugs dataset at your own discretion (e.g. randomly) and randomly specify which drugs have a harmful (negative) effect on the newly added drug, and also randomly select some diseases from the existing diseases dataset and store the effect of this drug as a positive or negative effect on those diseases in the dataset number (4) randomly.

9. When adding a new disease, you should randomly select a number of drugs (from dataset 1) and assign its positive or negative effect (randomly) to that disease and store it in dataset 4.

10. It should be possible to increase or decrease the price of medicines according to the inflation rate. (The inflation rate is entered manually at the entrance and the medicine section is changed.)