Scenario: Medicine Record

Make a **C++ Class** that stores medicine data. The class stores the **Medicine name**, **chemical formula**, **type (tablet, syrup, inj. etc.)**, **manufacturer name**, **manufacturing date**, **expiry date,** and **quantity**. *Select suitable data type for each data member.*   [3 Marks]

The class must have **no-argument**, **argument**, and **copy constructors**. The class must have a **show** function to fetch the medicine.   [2 + 2 + 2 + 2 Marks]

Make sure that user only enters the valid medicine type. *How will you introduce another class in the code? Will there be inheritance in it or will that be independent from each other? Also, how will you keep track of medicine available in various types for efficient search?*   [2 Marks]

Write a **main** function to test the functionality of the code. Make suitable objects. Also, show the use of copy constructor. And create an array of objects e.g. 3 showing three medicines. Store the data and show too.   [2 Marks]

All the best.