Imagine a publishing company that markets both books and video-cassettes versions of its work.

Write a console-based application to manage the company’s repository of books and tapes. The application should allow the company owner to perform following tasks:

1. Publish new book
2. Publish new tape
3. List all tape publications ordered by publish date
4. List top 5 publications of current year based on rating
5. List all latest version of book publications

You can create a class **Publication** that stores

* Id (Unique identifier, should be generated automatically)
* title (text),
* price (in INR),
* publish date,
* ratings (integer value between 1 to 10)
* version (number like 1.0, 1.1, 2.0)

You can have two sub classes – Book and Tape

**Book** will store page count

**Tape** will store playing time (in minutes)

Note that, two publications cannot have same title unless version differs.

**Marks Distribution:**

* Basic structure of program including class inheritance, choice of suitable collections, basic validations etc. [**10 Marks]**
* Implementation of functionality 1 [**5 Marks**]
* Implementation of functionality 2 [**5 Marks**]
* Implementation of functionality 3 [**5 Marks**]
* Implementation of functionality 4 [**5 Marks**]
* Implementation of functionality 5 [**5 Marks**]
* Java naming convention, exception handling [**5 Marks**]