

PRO192 - Lab07

Inheritance – Abstract class

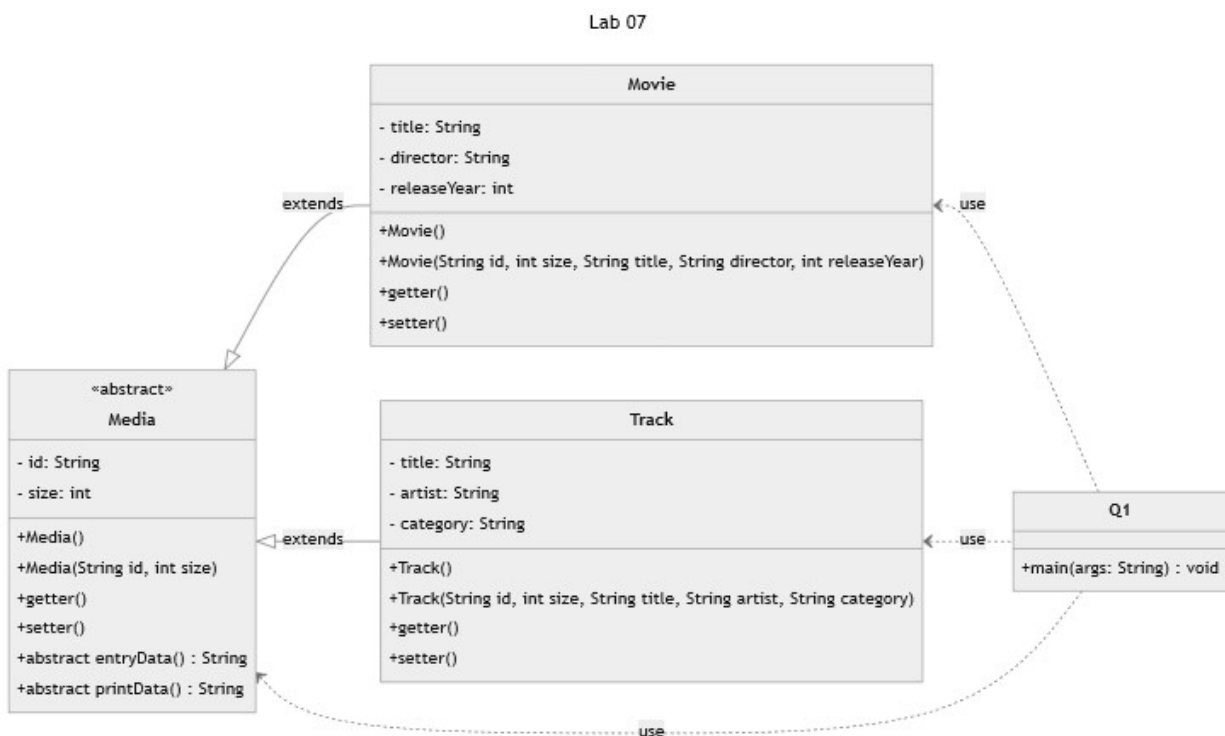
Tên project: **Q1** và tạo thư mục nộp bài theo yêu cầu

```
solution.zip          // 5. Nén thư mục run & src, đặt tên solution.zip
├── run                // 4. Tạo thư mục run chứa file .jar
│   └── Q1.jar         // File jar đã đóng gói (Clean and Build)
└── src                // 3. Tạo thư mục src chứa Q1.zip
    └── Q1.zip         // 2. Nén dự án Q1 tạo ra từ NetBeans
        ├── build      // 1. Các file trong dự án NetBeans
        ├── dist
        ├── nbproject
        ├── src
        ├── test
        ├── build.xml
        └── manifest.mf
```

Nén thư mục nộp bài và submit lên EdutNext (Labs/Lab07)

Deadline: check on EduNext

Create the classes as below:



1. Class **Movie**

- **entryData():** return a string in this format
New movie <id>: <title> (<releaseYear>) by <director> added!
- **printData():** return a string in this format
Movie <id>: <title> (<releaseYear>) by <director>.

2. Class **Track**

- **entryData ():** return a string in this format
New track <id>: <title> (<category>) by <artist> added!
- **printData ():** return a string in this format
Music track <id>: <title> (<category>) by <artist>.

3. Class **Q1**

Build program that read input file and print out the result into output file as the following rule:

The input: stored in the input.txt file

- The first line contains a positive integer T ($0 < T < 101$) which is the number of test case.
- The next T lines contain one of:
 - M <id> <title> <director> <releaseYear> <size>. When the line starts with a character “M”, the program will add new Movie with the information and print out the string
New movie <id>: <title> (<releaseYear>) by <director> added!
 - T <id> <title> <artist> <category> <size>. When the line starts with a character “T”, the program will add new Track with the information and print out the string
New track <id>: <title> (<category>) by <artist> added!
 - Clear. When the line contains a String “Clear”, the program will remove all the Media that have been added and print out the String “* Remove all media”.
 - List. When the line contains a String “List”, the program will print out information of all media as the sample.
 - Size. When the line contains a String “Size”, the program will print out the total size of all stored media as the sample.

The output: all result must be print out into the output.txt file.

<i>Sample input 1</i>	
<i>input.txt</i>	<i>output.txt</i>
5 M M001 Avatar John 2009 500 T T001 Summer Peter Rock 25 List Size Clear	New movie M001: Avatar (2009) by John added! New track T001: Summer (Rock) by Peter added! ---List--- Movie M001: Avatar (2009) by John. Music track T001: Summer (Rock) by Peter. Total size: 525MB ----- * Remove all media

<i>Sample input 2</i>	
<i>input.txt</i>	<i>output.txt</i>
9 M M001 Avatar John 2009 500 M M002 Inception Jack 1999 450 M M003 Titanic Rose 1998 300 T T001 Summer Peter Rock 25 List Size Clear List Size	New movie M001: Avatar (2009) by John added! New movie M002: Inception (1999) by Jack added! New movie M003: Titanic (1998) by Rose added! New track T001: Summer (Rock) by Peter added! ---List--- Movie M001: Avatar (2009) by John. Movie M002: Inception (1999) by Jack. Movie M003: Titanic (1998) by Rose. Music track T001: Summer (Rock) by Peter. Total size: 1275MB ----- * Remove all media ---List--- Empty Total size: 0MB

--- THE END ---