Case Study 3

Course(s): Java DSA
Day: 8

Problem Statement
Implement the scenario where a User on the Youtube, subscribes to a Youtube Channel. Now, whenever a new video is uploaded a notification must be received by the User for the newly uploaded video.

You need to implement this case study using interfaces or abstract classes.

You must implement the below functionalities.
1. YouTube Channel Class
2. Notification Interface or Abstract Class
3. User Class
4. Suitable methods to the above classes to achieve functionality

Steps
1. Create a class YouTubeChannel with suitable attributes (eg: channelName, numberOfSubscribedUsers, totalVideos etc) along with methods like subscribe(Notification user) and uploadVideo(String videoName)
2. Create an Interface or Abstract Class Notification with an abstract method notifyUser(String message).
3. Create a class User, with suitable attributes (eg: name, phone, email etc.)
4. Implement the interface on the User class and define the unimplemented method notifyUser.
5. In the method subscribe of the YouTubeChannel class pass the reference to the User
6. Create a class with main function and showcase how, once a video is uploaded the notification is received by User.