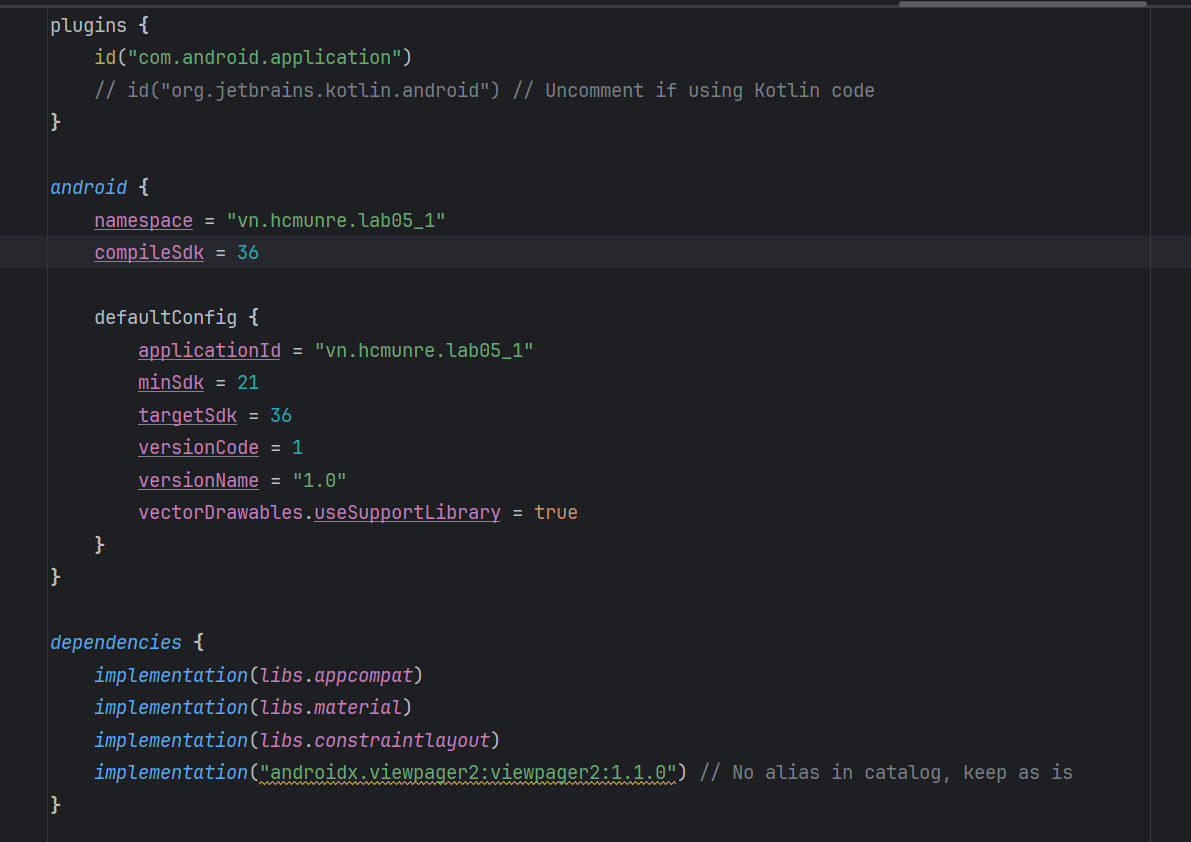
**Bài tập 5**

1) KHỞI TẠO DỰ ÁN & ĐỔI PACKAGE SANG vn.hcmunre.lab05\_1

1.1. Tạo dự án

* Android Studio → **New Project** → **Empty Activity**
* **Name**: AnimationLab
* **Language**: **Java**
* **Package** (tạm thời): bất kỳ → sẽ đổi ở bước sau
* **Minimum SDK**: API 21+

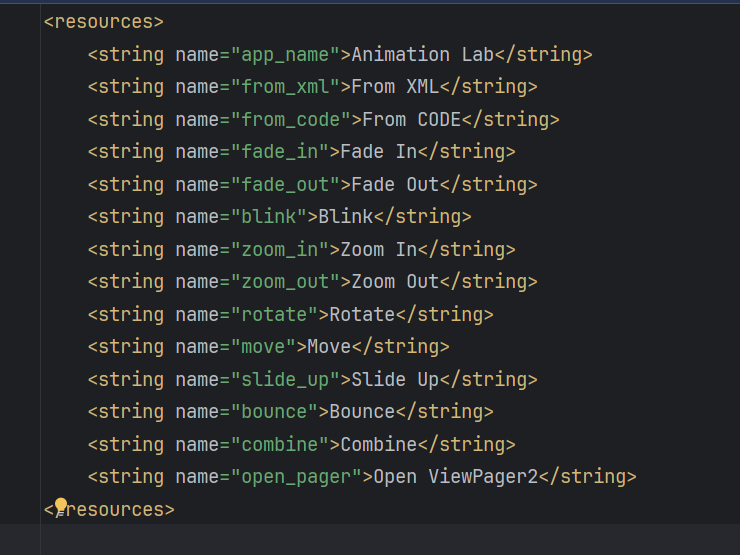
1.2. Thêm dependency ViewPager2



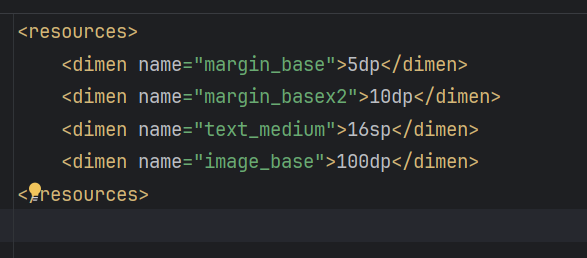
**-> Sync Now.**

2) CHUẨN BỊ TÀI NGUYÊN

2.1. res/values/strings.xml



2.2. res/values/dimens.xml



2.3. Ảnh logo

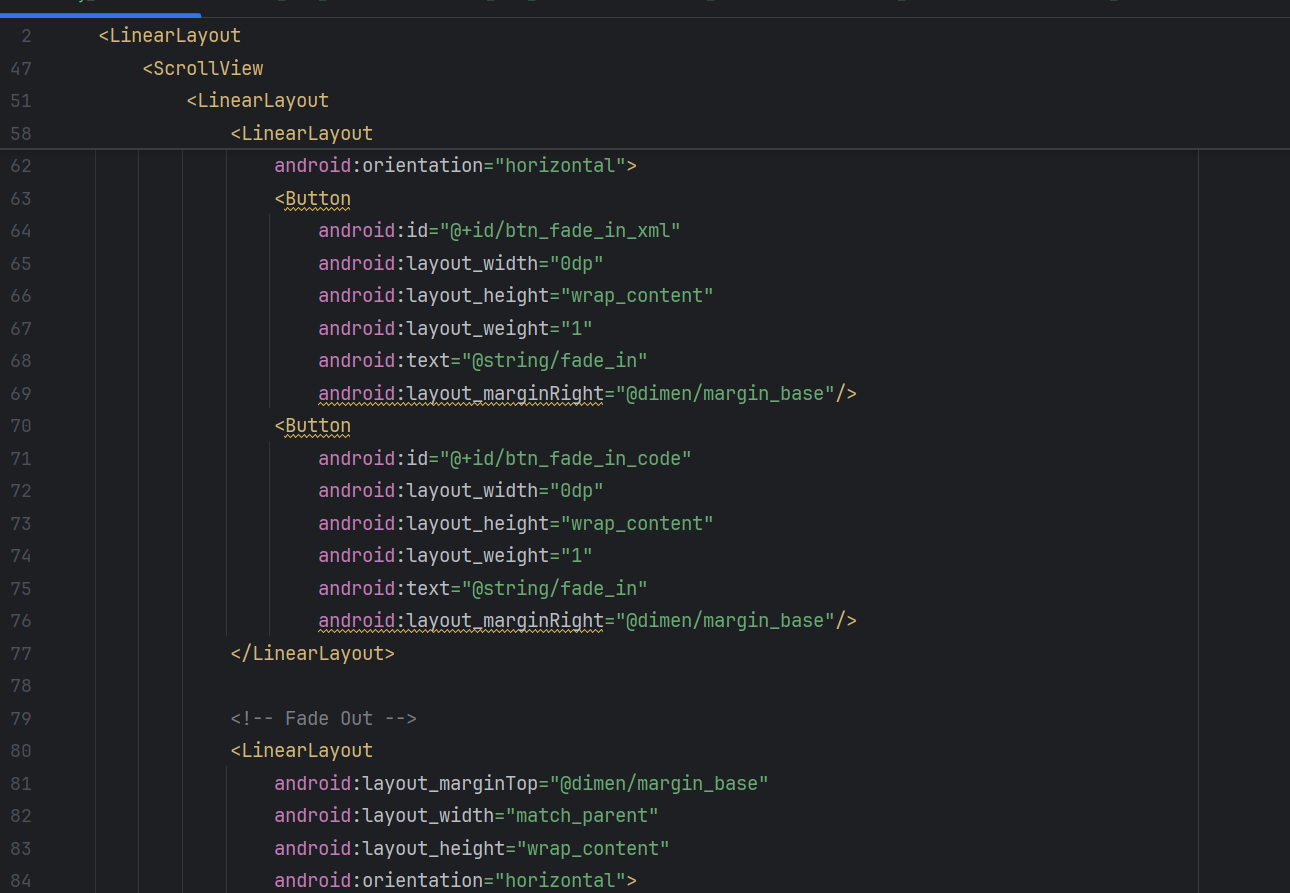
* Thêm logo.png vào res/drawable/. (Nếu dùng vector, giữ vectorDrawables.useSupportLibrary=true.)

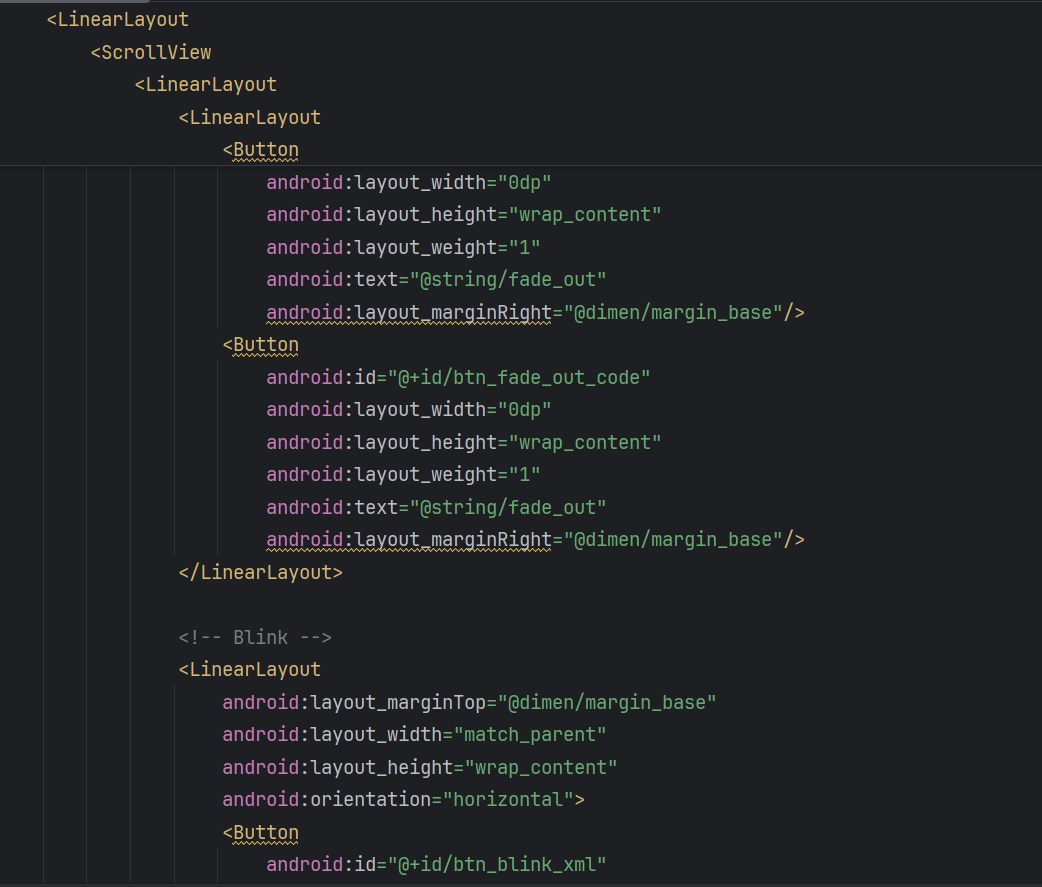


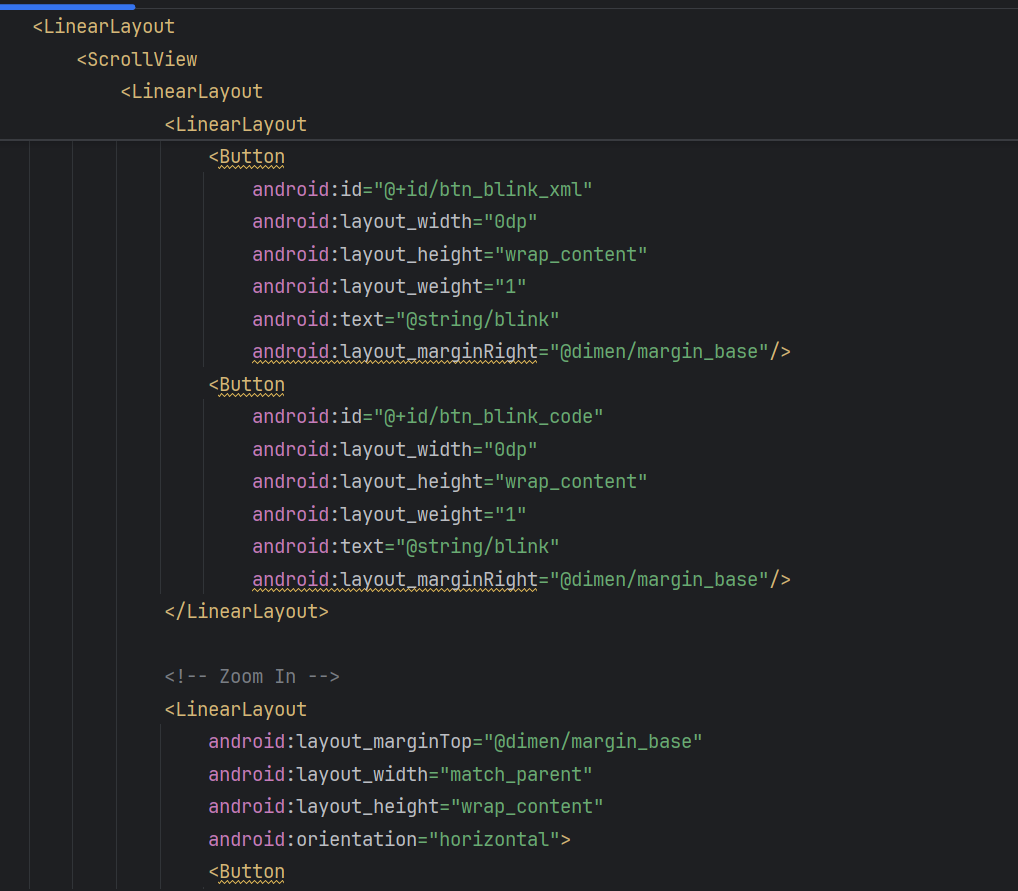
3. BÀI TẬP 1 — ANIMATION TỪ XML

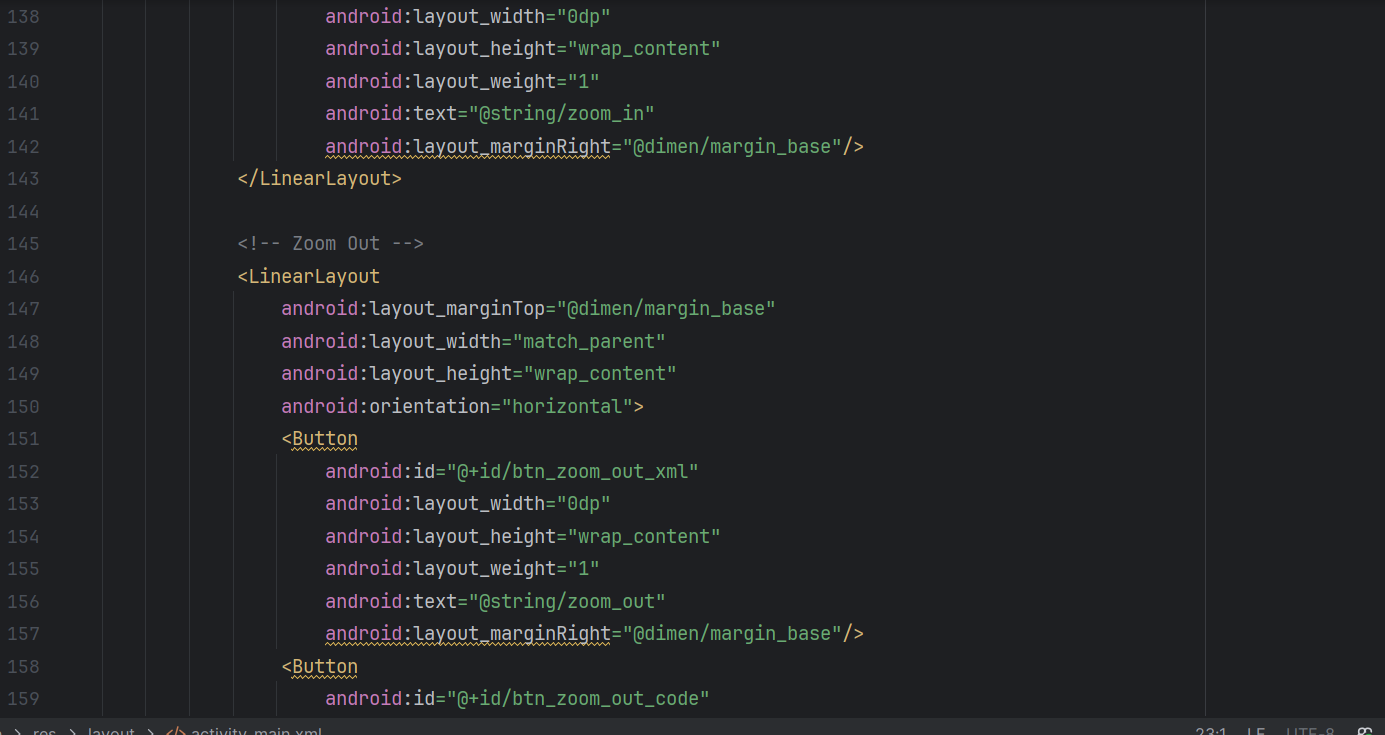
3.1. Giao diện chính res/layout/activity\_main.xml



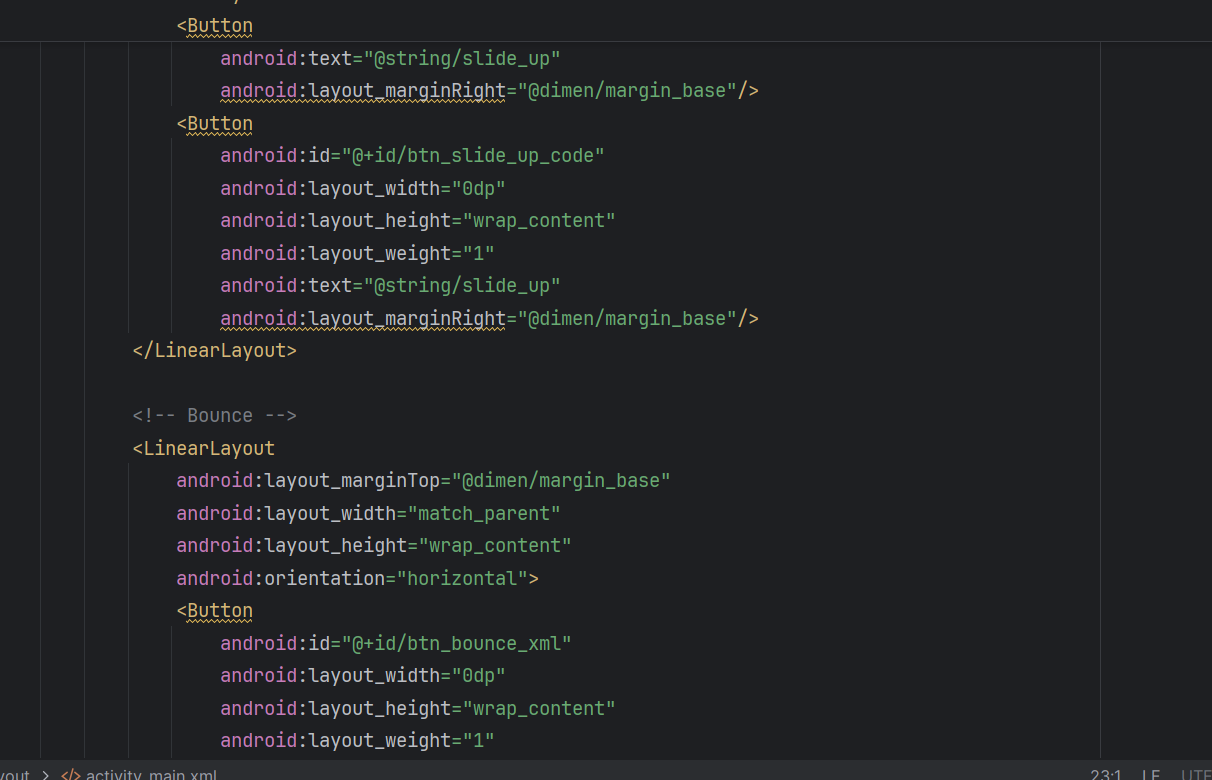


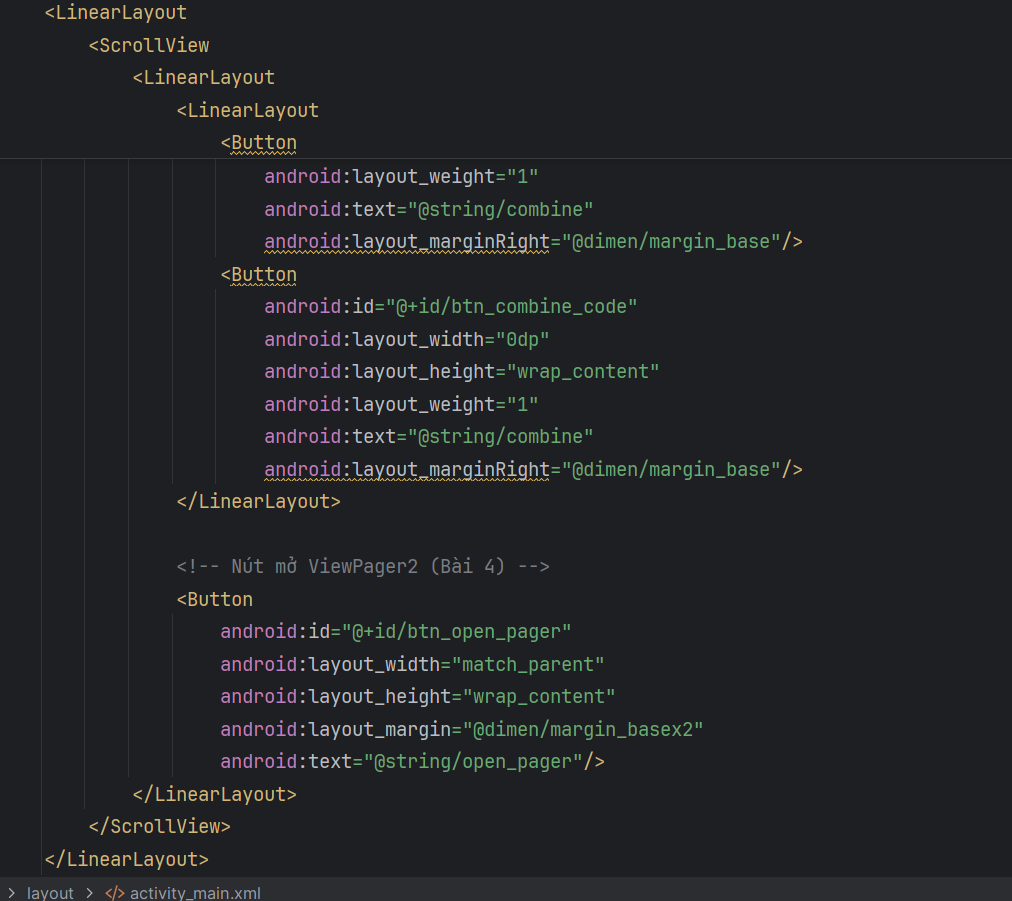








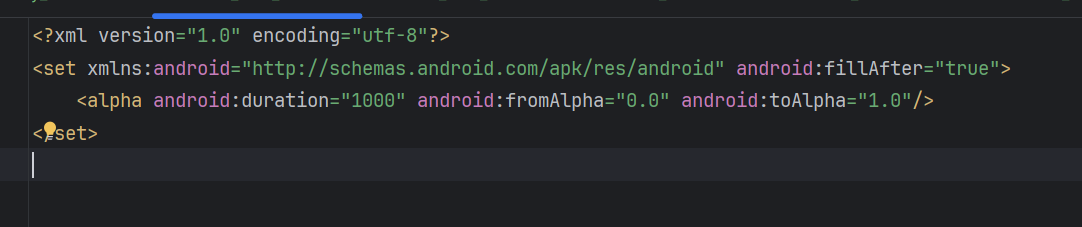




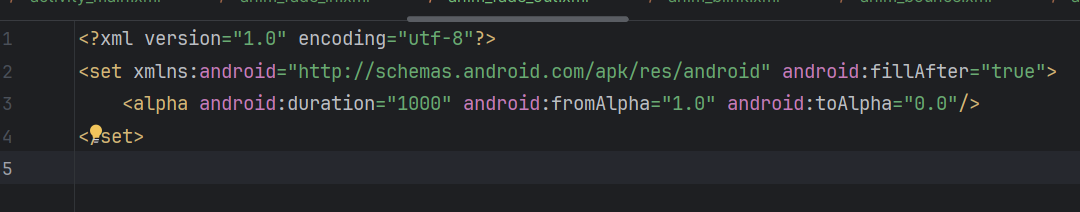
3.2. Khai báo các file animation trong res/anim/

- Tạo thư mục res/anim/ và thêm **10** file sau (theo đúng yêu cầu đề):

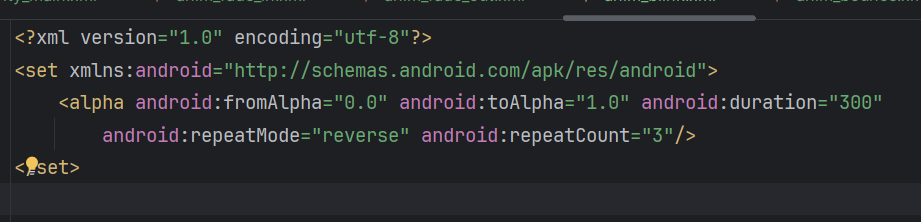
**- anim\_fade\_in.xml**



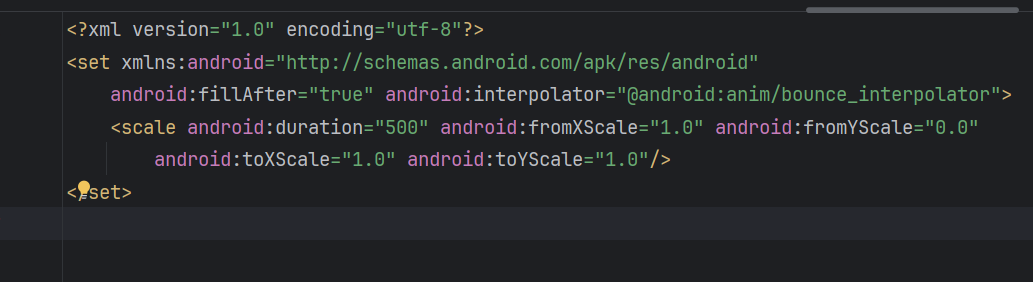
- **anim\_fade\_out.xml**



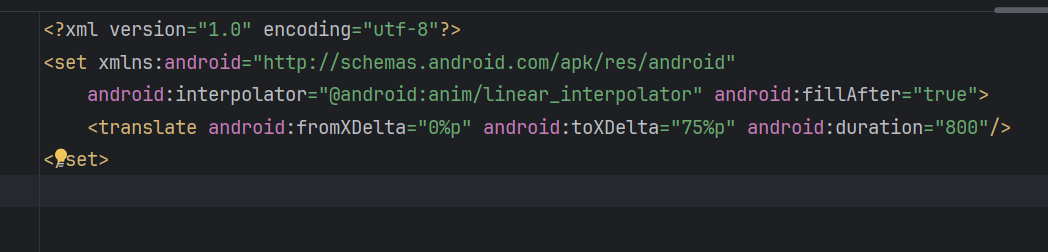
- **anim\_blink.xml**



**- anim\_bounce.xml**



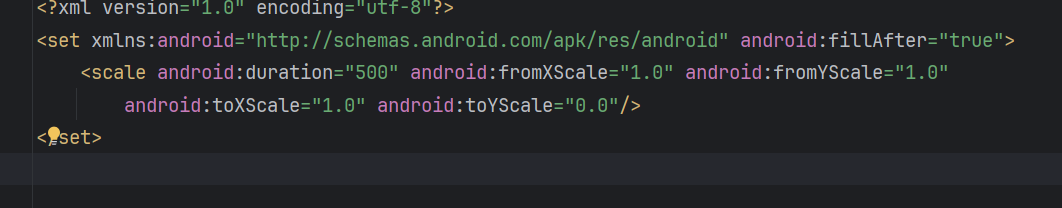
**- anim\_move.xml**



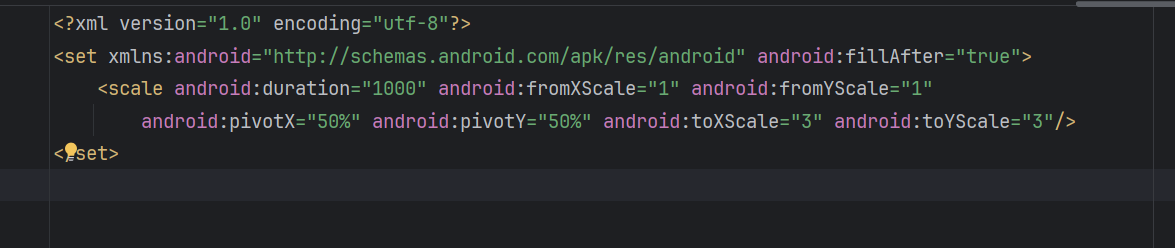
- **anim\_rotate.xml**



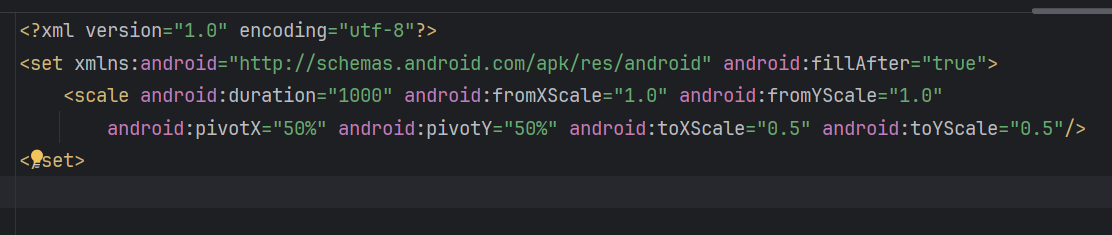
- **anim\_slide\_up.xml**



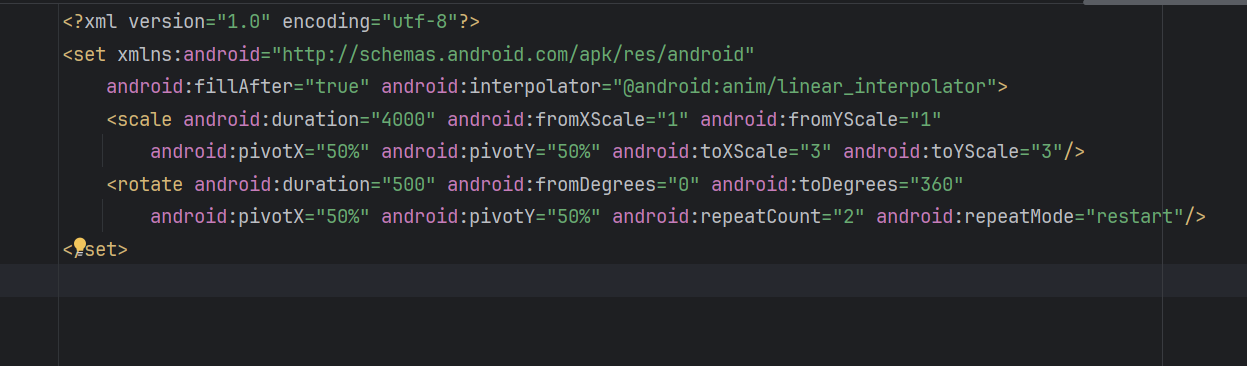
**- anim\_zoom\_in.xml**



**- anim\_zoom\_out.xml**



- **anim\_combine.xml**

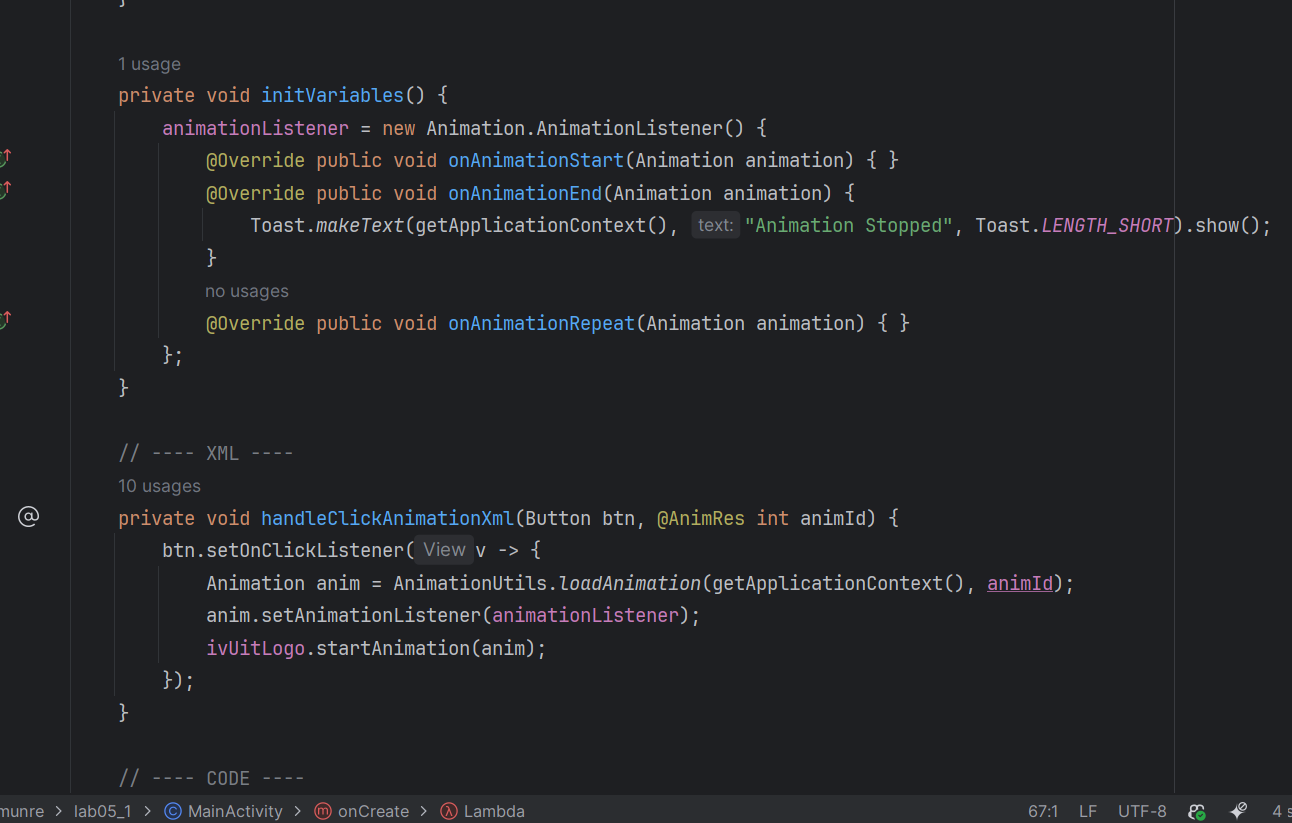


3.3. Java: gắn Animation XML cho nút (hàm chung)

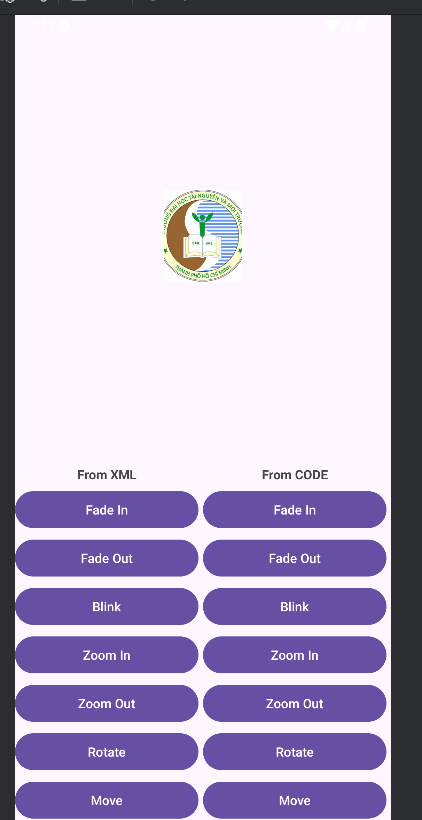


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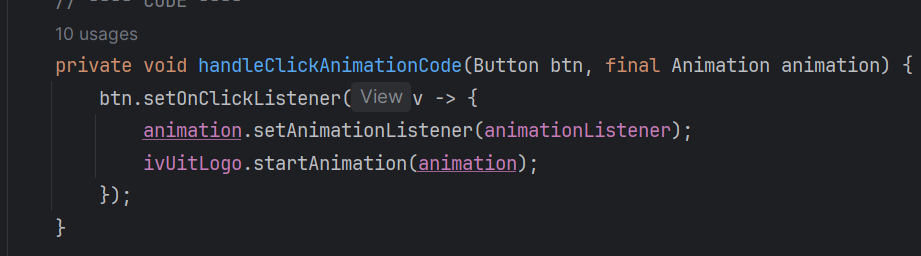
****

**- Kết quả: Bên trái là from xml**

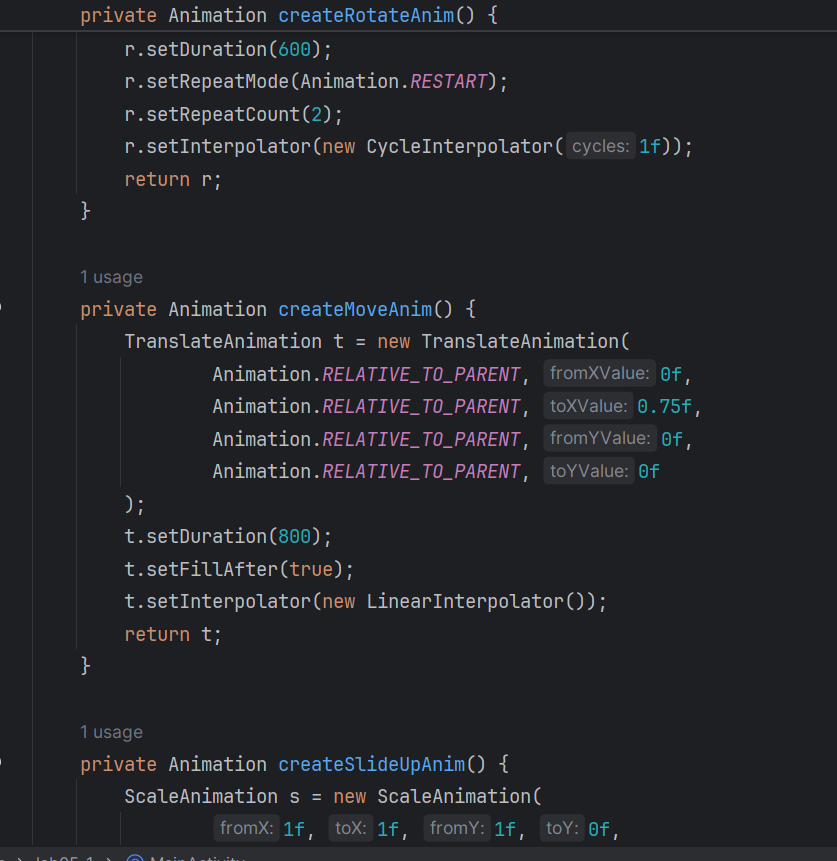


4) BÀI TẬP 2 — ANIMATION TỪ CODE (JAVA)

4.1. Hàm xử lý click chung cho CODE

4.2. Các hàm tạo Animation bằng Code (tương đương XML)



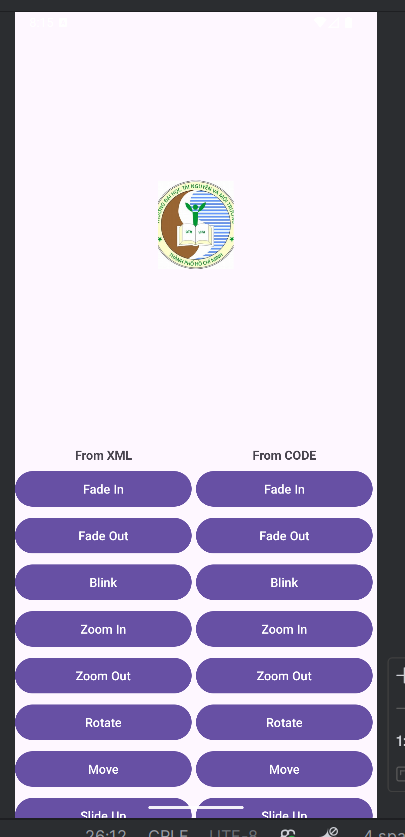




- **Gắn vào nút** trong onCreate():



- Kết quả: **bên phải là from code**



5) BÀI TẬP 3 — TRANSITION GIỮA ACTIVITY

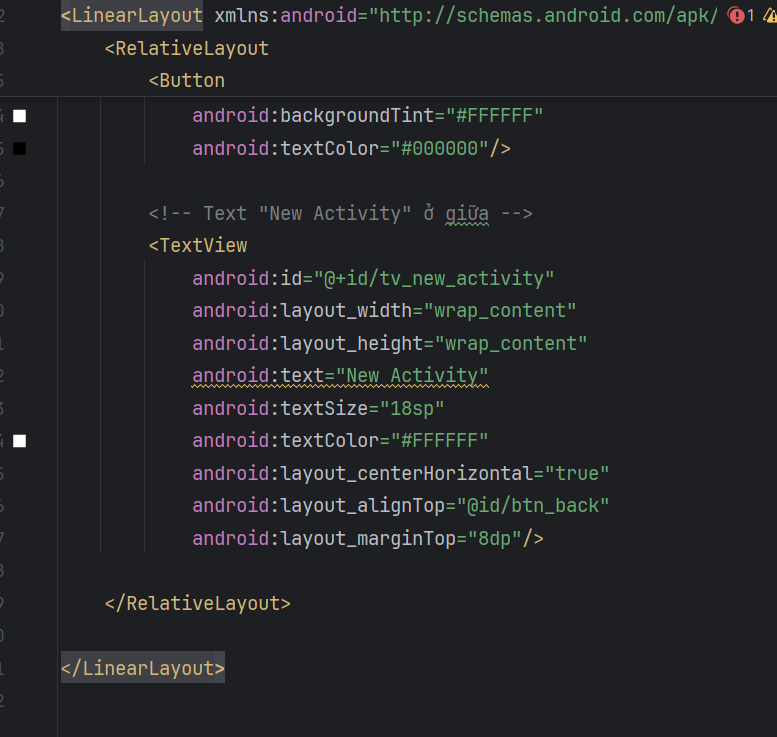
5.1. Tạo SecondActivity và layout

**- AndroidManifest.xml** (khai báo 3 activity):

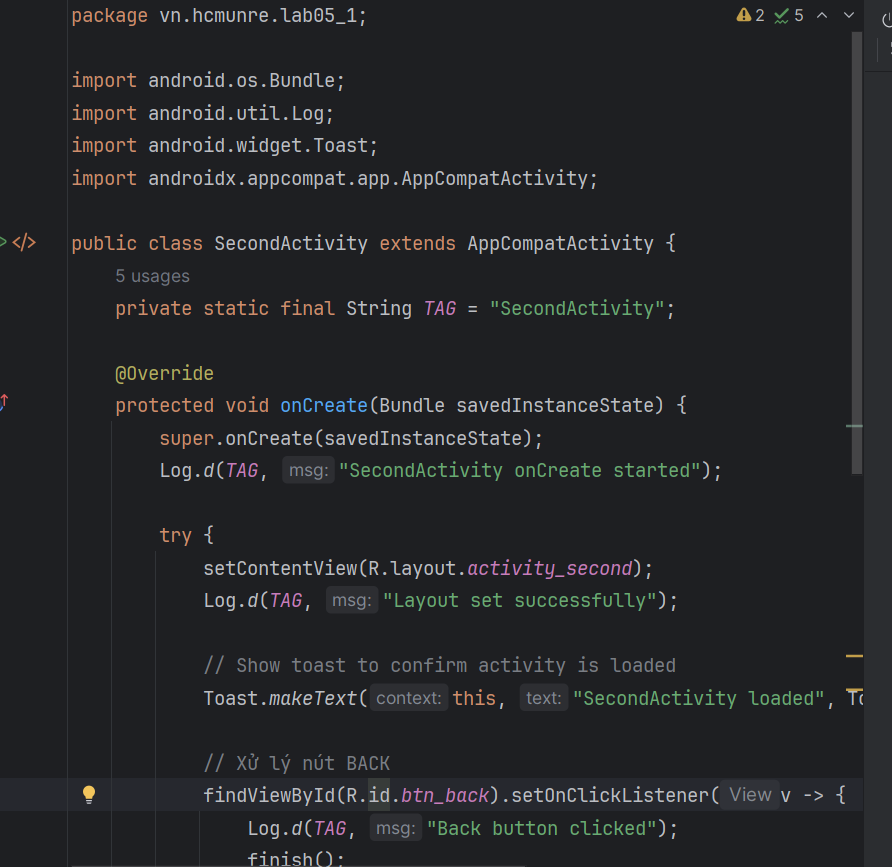


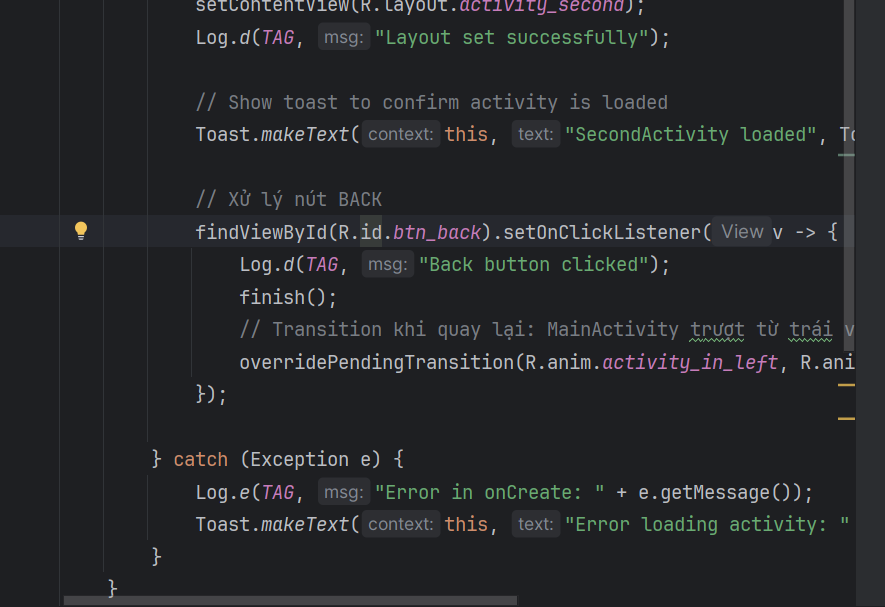
**- res/layout/activity\_second.xml**





**- java/vn/hcmunre/lab05\_1/SecondActivity.java**

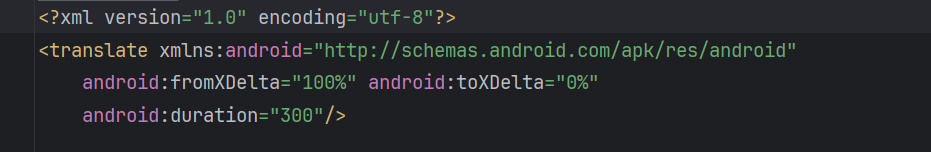




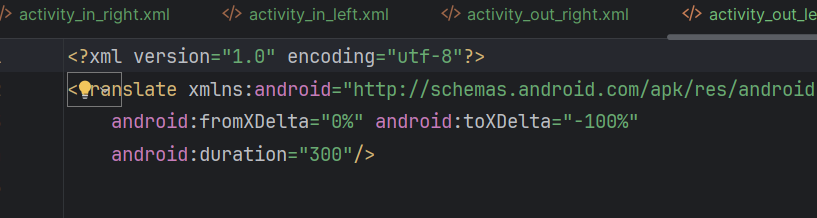
5.2. File transition trong res/anim/

**- Đẩy MainActivity sang trái, màn hình mới trượt từ phải vào:**

* activity\_in\_right.xml

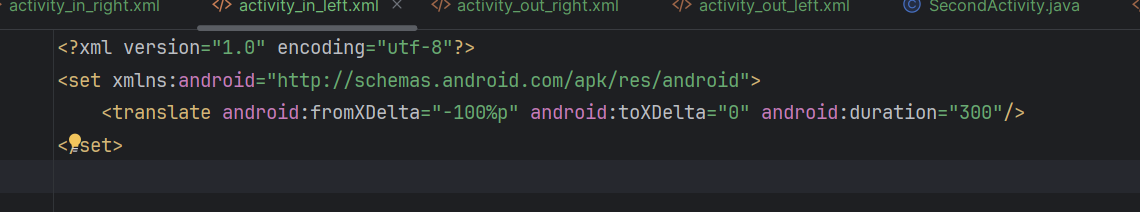


* activity\_out\_left.xml

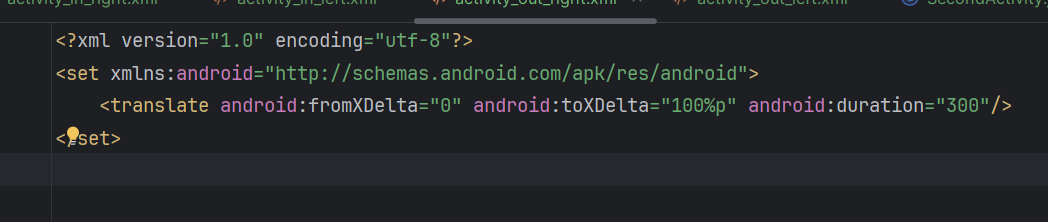


**- Khi Back (ngược lại):**

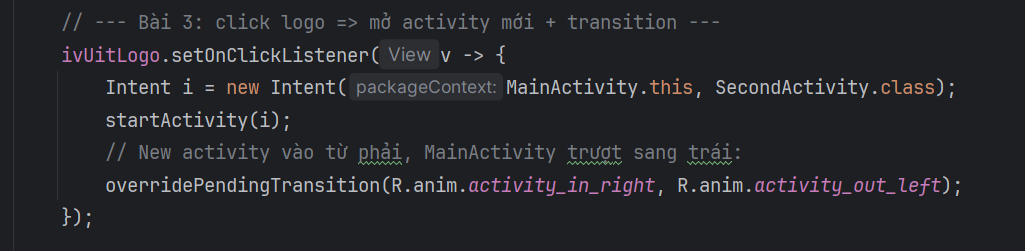
* activity\_in\_left.xml



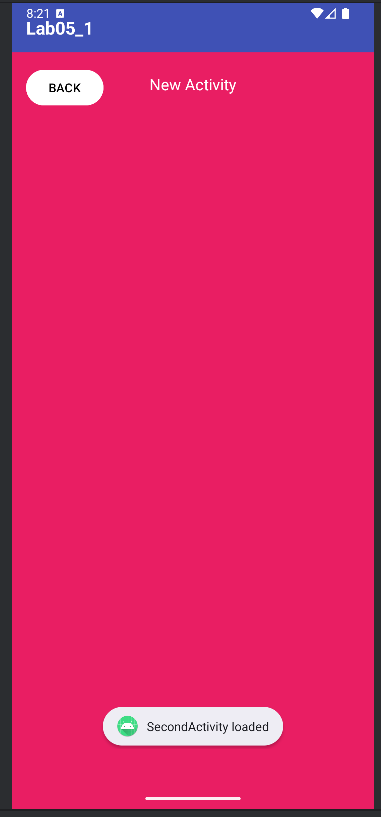
* activity\_out\_right.xml



4.3. Gọi transition khi mở SecondActivity (từ MainActivity)



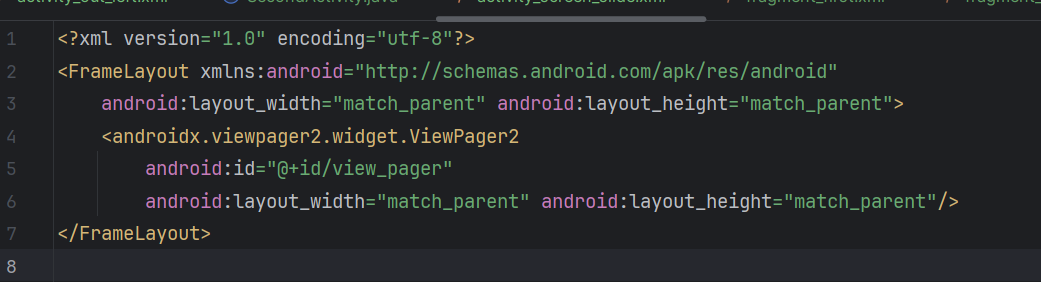
- Kết quả:



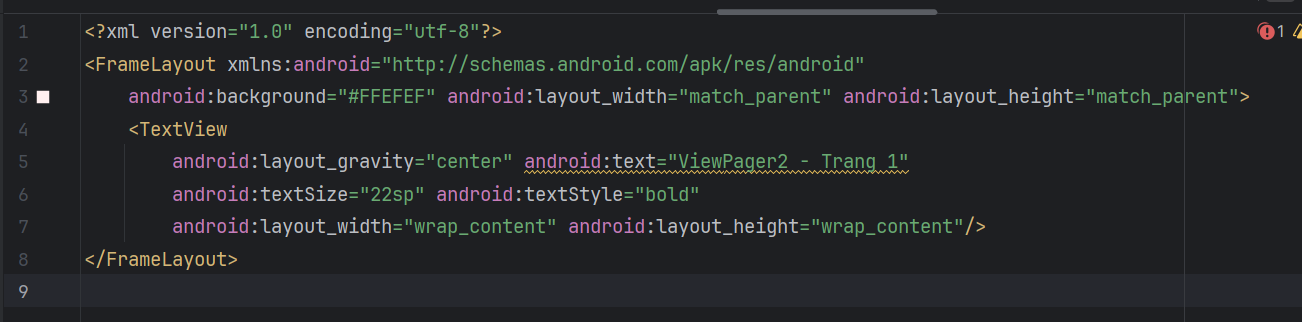
6) BÀI TẬP 4 — VIEWPAGER2 VUỐT TRÁI/PHẢI

6.1. Layout Activity chứa ViewPager2

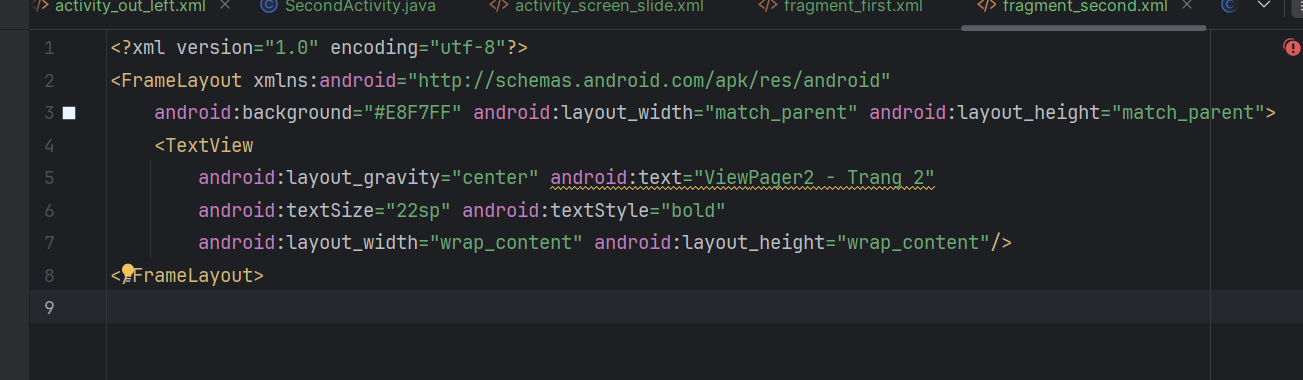
**- res/layout/activity\_screen\_slide.xml**

6.2. Hai Fragment đơn giản

**- res/layout/fragment\_first.xml**

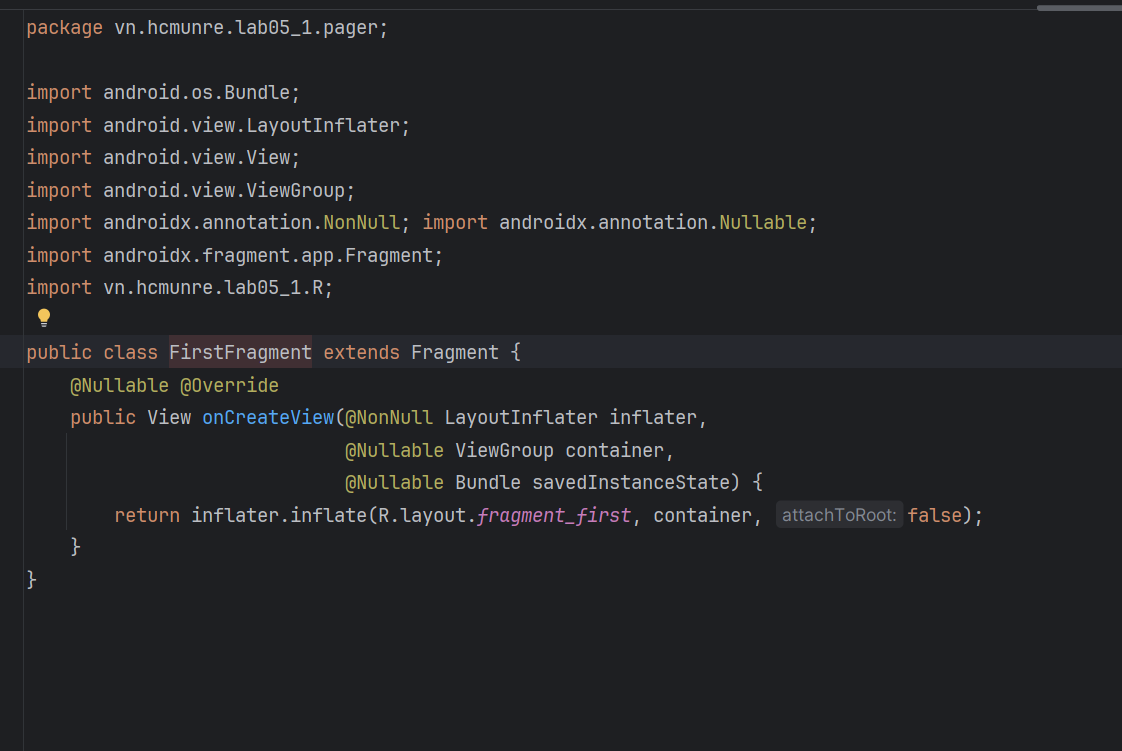


**- res/layout/fragment\_second.xml**

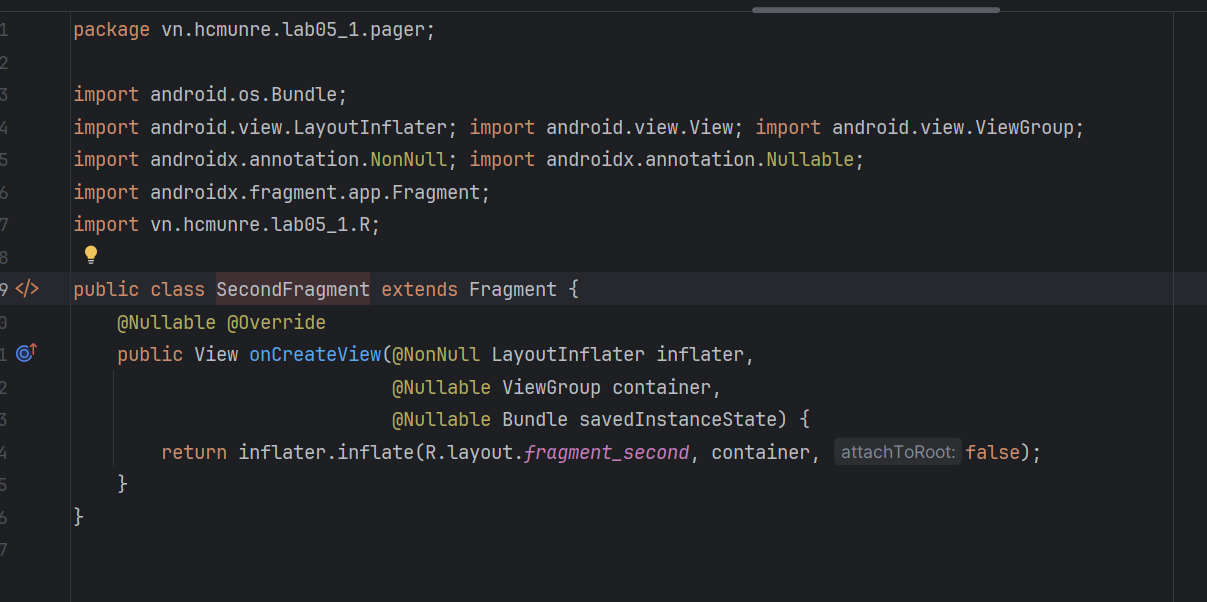


6.3. Code Fragment, Adapter, Activity

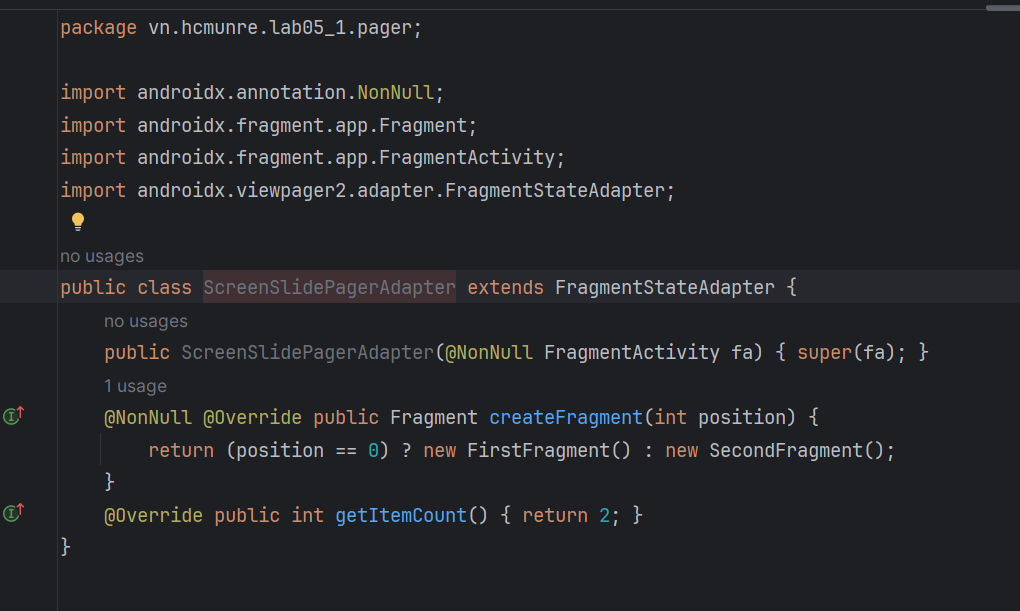
**- java/vn/hcmunre/lab05\_1/pager/FirstFragment.java**



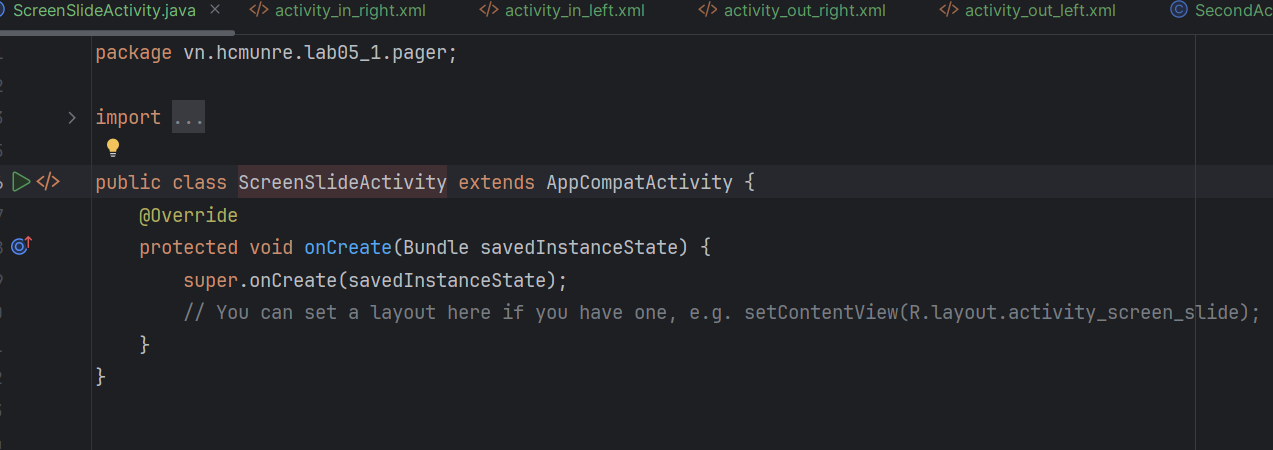
**- java/vn/hcmunre/lab05\_1/pager/SecondFragment.java**



**- java/vn/hcmunre/lab05\_1/pager/ScreenSlidePagerAdapter.java**



- **java/vn/hcmunre/lab05\_1/pager/ScreenSlideActivity.java**



**- Mở ViewPager2 từ MainActivity**: nút btn\_open\_pager đã có trong layout, trong onCreate():

btnOpenPager.setOnClickListener(v ->

startActivity(new Intent(this, ScreenSlideActivity.class)));