Hướng dẫn bài Lab07

Bài 01:

- Animation Zoom

Animation animation = AnimationUtils.loadAnimation(MainActivity.this, R.anim.zoom); imgAni.startAnimation(animation);

- Animation Moving

o File Animation (moving.xml)

```
<?xml version="1.0" encoding="utf-8"?>
<set xmlns:android="http://schemas.android.com/apk/res/android"
    android:fillAfter="true"
    android:interpolator="@android:anim/linear_interpolator">
    <translate
        android:duration="800"
        android:fromXDelta="0%p"
        android:toXDelta="75%p" />
</set>
```

o Goi Animation

Animation animation = AnimationUtils.loadAnimation(MainActivity.this, R.anim.moving); imgAni.startAnimation(animation);

Animation Rotation (Sử dụng Object Animator)

```
int dest = 360;
if(imgAni.getRotation() == 360){
    System.out.println(imgAni.getAlpha());
    dest = 0;
}
ObjectAnimator animator = ObjectAnimator.ofFloat(imgAni, "rotation", dest);
animator.setDuration(2000);
animator.start();
```

- Hàm showImage

```
private void showImage(String image) {
    ObjectAnimator anim = ObjectAnimator.ofFloat(imgAni, "translationX", Of, 500f);
    anim.setDuration(2000);
    ObjectAnimator anim1 = ObjectAnimator.ofFloat(imgAni, "alpha", 1f, 0f);
    anim1.setDuration(2000);
    ObjectAnimator anim2 = ObjectAnimator.ofFloat(imgAni, "translationX", -500f, 0f);
    anim2.setDuration(2000);
    ObjectAnimator anim3 = ObjectAnimator.ofFloat(imgAni, "alpha", Of, 1f);
    anim3.setDuration(2000);
    AnimatorSet ans = new AnimatorSet();
    ans.play(anim2).with(anim3).after(anim).after(anim1);
    ans.start();
    final String imgName = image;
    anim1.addListener(new AnimatorListenerAdapter() {
        @Override
        public void onAnimationCancel(Animator animation) {
            super.onAnimationCancel(animation);
        }
        @Override
        public void onAnimationEnd(Animator animation) {
            if(imgName == "Nobita"){
                imgAni.setImageResource(R.drawable.nobita);
            if(imgName == "Doreamon"){
                imgAni.setImageResource(R.drawable.doraemon);
        }
        @Override
        public void onAnimationRepeat(Animator animation) {
            super.onAnimationRepeat(animation);
        }
        @Override
        public void onAnimationStart(Animator animation) {
            super.onAnimationStart(animation);
    });
}
   Sự kiện click
btnAll.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        showImage("All");
});
```

Tương tự các nút Doreamon và Nobita ta truyền showImage("Doreamon"); và showImage("Nobita");

Animation hour

- Animation minute

- Animation seconds

- Sự kiện click nút run

```
Animation hour = AnimationUtils.loadAnimation(Bai03Activity.this, R.anim.clock_hour);
Animation minute = AnimationUtils.loadAnimation(Bai03Activity.this, R.anim.clock_minute);
Animation second = AnimationUtils.loadAnimation(Bai03Activity.this, R.anim.clock_second);
imgHour.startAnimation(hour);
imgMinute.startAnimation(minute);
imgSecond.startAnimation(second);
```