**Лабораторная работа №13**

# Анимация переключения Activity

**Цель работы:** Научиться программировать tween-анимацию, задавать эффекты переключения Activity.

Ход работы:

public class MainActivity extends AppCompatActivity implements View.OnClickListener {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

Button launch\_btn = findViewById(R.id.launch\_btn);

launch\_btn.setOnClickListener(this);

}

@Override

public void onClick(View view) {

RadioGroup RG = findViewById(R.id.radioGroup);

int checkedID = RG.getCheckedRadioButtonId();

if(checkedID==-1){

Toast.makeText(getApplicationContext(), "Ничего не выбрано", Toast.LENGTH\_SHORT).show();

return;

}

Intent intent = new Intent(this, MainActivity2.class);

int choosenID, in\_animation= R.anim.slide\_in\_left, out\_animation = R.anim.slide\_out\_right;

if(checkedID==R.id.radioButton1){

choosenID=1;

in\_animation=R.anim.slide\_in\_right;

out\_animation=R.anim.slide\_out\_left;

new RB\_Extras(intent, choosenID, R.anim.slide\_in\_left, R.anim.slide\_out\_right);

}

else if(checkedID==R.id.radioButton2){

choosenID=2;

in\_animation=R.anim.slide\_in\_left;

out\_animation=R.anim.slide\_out\_right;

new RB\_Extras(intent, choosenID, R.anim.slide\_in\_right, R.anim.slide\_out\_left);

}

else if(checkedID==R.id.radioButton3){

choosenID=3;

in\_animation=R.anim.slide\_in\_bottom;

out\_animation=R.anim.slide\_out\_top;

new RB\_Extras(intent, choosenID, R.anim.slide\_in\_top, R.anim.slide\_out\_bottom);

}

else if(checkedID==R.id.radioButton4){

choosenID=4;

in\_animation=R.anim.slide\_in\_top;

out\_animation=R.anim.slide\_out\_bottom;

new RB\_Extras(intent, choosenID, R.anim.slide\_in\_bottom, R.anim.slide\_out\_top);

}

startActivity(intent);

this.overridePendingTransition(in\_animation, out\_animation);

}

}

public class MainActivity2 extends AppCompatActivity{

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main2);

TextView tv = findViewById(R.id.tv);

RB\_Extras rbExtras = new RB\_Extras(this);

tv.setText(String.valueOf(rbExtras.get\_value()));

}

@Override

public void finish() {

super.finish();

RB\_Extras rbExtras = new RB\_Extras(this);

this.overridePendingTransition(rbExtras.get\_in\_animation(), rbExtras.get\_out\_animation());

}

}

public class RB\_Extras {

final private String \_value\_key = "z90201.direct.extra.\_value";

final private String \_in\_animation\_key = "z90201.direct.extra.\_in\_animation";

final private String \_out\_animation\_key = "z90201.direct.extra.\_out\_animation";

private int \_value = -1;

private int \_in\_animation = -1;

private int \_out\_animation = -1;

RB\_Extras(Intent intent, int value, int in\_animation, int out\_animation){

intent.putExtra(\_value\_key, value);

intent.putExtra(\_in\_animation\_key, in\_animation);

intent.putExtra(\_out\_animation\_key, out\_animation);

}

RB\_Extras(Activity activity){

Bundle extras = activity.getIntent().getExtras();

\_value = extras!=null?extras.getInt(\_value\_key):-1;

\_in\_animation = extras!=null?extras.getInt(\_in\_animation\_key):-1;

\_out\_animation = extras!=null?extras.getInt(\_out\_animation\_key):-1;

}

public int get\_value(){

return \_value;

}

public int get\_in\_animation() {

return \_in\_animation;

}

public int get\_out\_animation() {

return \_out\_animation;

}

}

**Вывод:** в ходе работы мы научились программировать tween-анимацию, задавать эффекты переключения Activity.