**package** com.example.ansan.myapplication;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.view.Menu;

**import** android.view.MenuItem;

**import** android.view.SubMenu;

**public class** Main2Activity **extends** AppCompatActivity {

View2 **view2**;

@Override

**protected void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

**view2** = **new** View2(**this**);

setContentView(**view2**);

}

@Override

**public boolean** onCreateOptionsMenu(Menu menu) {

SubMenu smenu =

menu.addSubMenu(**"그림변경>>"**);

smenu.add(0,1,0,**"트와이스"**);

smenu.add(0,2,0,**"아이오아이"**);

menu.add(0, 3, 0, **"회전"**);

menu.add(0, 4, 0, **"이동"**);

menu.add(0, 5, 0, **"확대"**);

menu.add(0, 6, 0, **"기울이기"**);

**return super**.onCreateOptionsMenu(menu);

}

@Override

**public boolean** onOptionsItemSelected(MenuItem item) {

**switch** (item.getItemId()){

**case** 1:

**view2**.**picNO** = 1;

**view2**.invalidate();

**break**;

**case** 2:

**view2**.**picNO** = 2;

**view2**.invalidate();

**break**;

**case** 3:

**view2**.**op** = 1;

**view2**.invalidate();

**break**;

**case** 4:

**view2**.**op** = 2;

**view2**.invalidate();

**break**;

**case** 5:

**view2**.**op** = 3;

**view2**.invalidate();

**break**;

**case** 6:

**view2**.**op** = 4;

**view2**.invalidate();

**break**;

}

**return super**.onOptionsItemSelected(item);

}

}

**package** com.example.ansan.myapplication;

**import** android.content.Context;

**import** android.graphics.Bitmap;

**import** android.graphics.BitmapFactory;

**import** android.graphics.Canvas;

**import** android.view.View;

*/\*\**

*\* Created by ansan on 2016-11-15.*

*\*/*

**public class** View2 **extends** View {

**int picNO** = 1;

**int op** = 0;

**public** View2(Context context) {

**super**(context);

}

@Override

**protected void** onDraw(Canvas canvas) {

**super**.onDraw(canvas);

Bitmap picture;

**if**(**picNO** == 1){

picture = BitmapFactory.*decodeResource*(

getResources(), R.drawable.***tt***);

}

**else**

picture = BitmapFactory.*decodeResource*(

getResources(), R.drawable.***ioi***);

**int** picX = (**this**.getWidth() - picture.getWidth())/2;

**int** picY = (**this**.getHeight() - picture.getHeight())/2;

**int** centerx = **this**.getWidth()/2;

**int** centery = **this**.getHeight()/2;

**if**(**op** == 1){

canvas.rotate(45, centerx, centery);

}

**else if**(**op** == 2){

canvas.translate(-150, 200);

}

**else if**(**op** == 3){

canvas.scale(2, 2, centerx, centery);

}

**else if**(**op** == 4){

canvas.skew(0.3f, 0.3f);

}

canvas.drawBitmap(picture, picX, picY, **null**);

picture.recycle();

}

}







