```
Activity_main
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <com.example.smileyyy.FaceView</pre>
        android:layout_width="wrap_content"
        android:layout height="wrap content" />
    <Button
        android:id="@+id/button"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="---> Sad Face" />
</RelativeLayout>
Activity sec
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:layout width="match parent"
    android:layout height="match parent">
    <com.example.smileyyy.FaceView2</pre>
        android:layout width="wrap content"
        android:layout height="wrap content" />
    <Button
        android:id="@+id/button1"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:text="--> Happy Face" />
</RelativeLayout>
MainActivity
package com.example.smileyyy;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
public class MainActivity extends AppCompatActivity {
    Button button;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        button = (Button) findViewById(R.id.button);
        button.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                openNewActivity();
        });
    }
```

```
public void openNewActivity() {
        Intent intent = new Intent(this, MainActivity2.class);
        startActivity(intent);
    }
}
MainActivity2
package com.example.smileyyy;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import com.example.smileyyy.databinding.ActivityMain2Binding;
import androidx.appcompat.app.AppCompatActivity;
import androidx.navigation.ui.AppBarConfiguration;
public class MainActivity2 extends AppCompatActivity {
    Button button1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity sec);
        button1 = (Button) findViewById(R.id.button1);
        button1.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                openNewActivity();
            }
        });
    public void openNewActivity(){
        Intent intent1 = new Intent(this, MainActivity.class);
        startActivity(intent1);
    }
}
FaceView
package com.example.smileyyy;
import android.content.Context;
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.graphics.RectF;
import android.util.AttributeSet;
import android.view.View;
public class FaceView extends View {
    private Paint paint1, paint1;
    private RectF RectF;
    public FaceView(Context context, AttributeSet attrs) {
        super(context);
// create the Paint and set its color
        paint = new Paint();
        paint1 = new Paint();
        paint2 = new Paint();
        paint.setColor(Color.MAGENTA);
        paint1.setColor(Color.GRAY);
```

paint2.setColor(Color.GRAY);

```
@Override
    protected void onDraw(Canvas canvas) {
        canvas.drawColor(Color.WHITE);
        canvas.drawCircle(500, 600, 220, paint);
        canvas.drawCircle(400, 570, 30, paint2); canvas.drawCircle(600, 570, 30, paint2);
        RectF oval = new RectF(400, 520 + 520 / 8, 600, (float) (520 + 520
                / 2.5));
        canvas.drawArc(oval, 10, 160, false, paint1);
    }
FaceView2
package com.example.smileyyy;
import android.content.Context;
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.graphics.RectF;
import android.util.AttributeSet;
import android.view.View;
public class FaceView2 extends View {
    private Paint paint, paint1, paint2;
    private RectF RectF;
    public FaceView2(Context context, AttributeSet attrs) {
        super(context);
// create the Paint and set its color
       paint = new Paint();
        paint1 = new Paint();
        paint2 = new Paint();
        paint.setColor(Color.BLUE);
        paint1.setColor(Color.GRAY);
        paint2.setColor(Color.GRAY);
    @Override
    protected void onDraw(Canvas canvas) {
        canvas.drawColor(Color.WHITE);
        canvas.drawCircle(500, 600, 220, paint);
        canvas.drawCircle(400, 570, 30, paint2);
        canvas.drawCircle(600, 570, 30, paint2);
        RectF oval = new RectF(400, 520 + 520 / 7, 600, (float) (520 + 520
                 / 2.5));
        canvas.drawArc(oval, 10, -200, false, paint1);
```

}

}



