Create an application to show happy face smiley and sad face smiley to demonstrate button click events.

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    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.smiles.FaceView
        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:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:text="---> Sad Face" />

        </RelativeLayout>
```

Activity_sec.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <com.example.smiles.FaceView2
        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:layout_height="wrap_content"
        android:text="---> Happy Face" />
</RelativeLayout>
```

MainActivity.java

```
package com.example.smiles;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.content.Intent;
import android.view.View;
import android.widget.Button;

public class MainActivity extends AppCompatActivity {
    Button button;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
```

MainActivity2.java

FaceView

```
package com.example.smiles;
```

```
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.graphics.RectF;
import android.util.AttributeSet;
        public FaceView(Context context, AttributeSet attrs) {
```

FaceView2

```
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;
    private RectF RectF;
```

Screenshot



