Program 5. Create an application to show happy face smiley and sad face smiley to demonstrate button click events.

activity_main.xml

activity_main2.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.sadandhappyface.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.sadandhappyface;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
```

Mainactivity2.java

```
package com.example.sadandhappyface;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;

import android.appcompat.app.AppCompatActivity;

public class MainActivity2 extends AppCompatActivity {
    Button button1;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        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.java

```
package com.example.sadandhappyface;
import android.graphics.Paint;
import android.graphics.RectF;
import android.util.AttributeSet;
```

Faceview2.java

```
package com.example.sadandhappyface;
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;
```

<u>Output</u>

