PROGRAM 5

XML File1

```
<?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.smily.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:text="---> Sad
Face" />
</RelativeLayout>
```

XML File 2

Java File1

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

Java File2

```
package com.example.smily;
import android.content.Intent;
import android.os.Bundle; import
android.view.View; import
android.widew.Diew; import
android.widew.Button;

import com.example.smily.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);
}
```

Face View1

```
import android.graphics.Paint;
public class FaceView extends View {
    private static final String COLOR HEX = "WHITE";
    public FaceView(Context context, AttributeSet attrs) {
mPaint.setAntiAlias(true);
    protected void onDraw(Canvas canvas) {
       mPaint.setColor(Color.parseColor(COLOR HEX));
mPaint.setStrokeWidth(strokeWidth);
canvas.drawPaint(mPaint);
yPosition = getMeasuredHeight() / 2;
```

FaceView2

```
import android.content.Context;
import android.util.AttributeSet;
import android.view.View;
public class FaceView2 extends View {
Paint();
                mPaint.setAntiAlias(true);
    @Override
        super.onDraw(canvas);
mPaint.setStrokeWidth(strokeWidth);
mPaint.setStyle(Paint.Style.STROKE);
```

```
canvas.drawPaint(mPaint);
canvas.drawColor(Color.BLACK);
xPosition = getMeasuredWidth() / 2;
       canvas.drawCircle(xPosition, yPosition, radius, mPaint);
```

Output



