# 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.myapplication.FaceView

        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />

        <Button
        android:layout_width="match_parent"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_height="wrap_conten
```

#### XML FILE2

### **MAIN ACTIVITY 1**

```
package com.example.myapplication;
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);
```

### **MAIN ACTIVITY 2**

#### **FACEVIEW 1**

```
package com.example.myapplication;
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 paint,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();
        paint1.setColor(Color.YELLOW);
        paint1.setColor(Color.BLACK);
    }

    @Override
    protected void onDraw(Canvas canvas) {
        canvas.drawColor(Color.WHITE);
        canvas.drawCircle(500, 600, 220, paint);
        canvas.drawCircle(600, 570, 30, paint1);
        canvas.drawCircle(600, 570, 30, paint1);
        RectF oval = new RectF(400, 520 + 520 / 7, 600, (float) (520 + 520 / 2.5));
        canvas.drawArc(oval, 10, -200, false, paint1);
    }
}
```

### **FACEVIEW 2**

```
package com.example.myapplication;

import android.content.Context;
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.graphics.RectF;
import android.view.Niew;

public class FaceView1 extends View {
    private Paint paint,paint1;
    private RectF RectF;

    public FaceView1 (Context context,AttributeSet attrs) {
        super(context);
        // create the Paint and set its color
```

```
paint = new Paint();
    paint1 = new Paint();
    paint.setColor(Color.YELLOW);
    paint1.setColor(Color.BLACK);
}

@Override
    protected void onDraw(Canvas canvas) {
        canvas.drawColor(Color.WHITE);
        canvas.drawCircle(500, 600, 220, paint);
        canvas.drawCircle(400, 570, 30, paint1);
        canvas.drawCircle(600, 570, 30, paint1);
        RectF oval = new RectF(400, 520 + 520 / 8, 600, (float) (520 + 520 / 2.5));
        canvas.drawArc(oval, 10, 160, false, paint1);
}
```

#### **OUTPUT**

