

PROGRAM 4

Mainactivity.java

```
package com.example.shape;

import android.os.Bundle;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(new com.example.shapeapp.CustomView(this));
    }
}
```

CustomView.java

```
package com.example.shape;

import android.content.Context;
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.graphics.Rect;
import android.view.View;

class CustomView extends View {

    private Rect rectangle;
    private Paint paint, p1;

    public CustomView(Context context) {
        super(context);
        int x = 100;
        int y = 50;
        int width = 1000;
        int height = 500;

        // create a rectangle that we'll draw later
        rectangle = new Rect(x, y, width, height);

        // create the Paint and set its color
        paint = new Paint();
        paint.setColor(Color.GRAY);

        p1 = new Paint();
        p1.setColor(Color.RED);
    }

    @Override
    protected void onDraw(Canvas canvas) {
        canvas.drawColor(Color.BLUE);
        canvas.drawRect(rectangle, paint);
    }
}
```

activitymain.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <View
        android:id="@+id/view"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        tools:layout_editor_absoluteX="3dp" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Output

