# XML CODE

```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">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

# DESIGN CODE

```java
package com.example.smiley;
import android.content.Context;
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.graphics.RectF;
import android.view.View;

public class CustomView extends View {

    private RectF rectangle;
    private Paint paint ,p1,p2 ;

    public CustomView(Context context) {
        super(context);
        int x=50;
        int y=50;
        int sidelength=200;
        rectangle = new RectF(x,y,sidelength,sidelength);
        paint = new Paint();
        p1 = new Paint();
        p1.setColor(Color.GREEN);
```

```java
        p2 = new Paint();
        p2.setColor(Color.YELLOW);
        paint.setColor(Color.CYAN);


    }

    @Override
    protected void onDraw(Canvas canvas) {
        canvas.drawColor(Color.GRAY );
        canvas.drawRect(rectangle,paint);
        canvas.drawCircle(600,700,220,p1);
        canvas.drawRect(400,400,990,120,p2);


    }
}
```

# OUTPUT