

```
package com.example.lab3graphics;
```

```
import android.app.Activity;
```

```
import android.graphics.Bitmap;
```

```
import android.graphics.Canvas;
```

```
import android.graphics.Color;
```

```
import android.graphics.Paint;
```

```
import android.graphics.drawable.BitmapDrawable;
```

```
import android.os.Bundle;
```

```
import android.widget.ImageView;
```

```
public class MainActivity extends Activity {
```

```
    @Override
```

```
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
```

```
        setContentView(R.layout.activity_main);
```

```
        Bitmap bg = Bitmap.createBitmap(720, 1280, Bitmap.Config.ARGB_8888);
```

```
        ImageView i = (ImageView) findViewById(R.id.imageView);
```

```
        i.setBackgroundDrawable(new BitmapDrawable(bg));
```

```
        Canvas canvas = new Canvas(bg);
```

```
        Paint paint = new Paint();
```

```
        paint.setColor(Color.CYAN);
```

```
        paint.setTextSize(50);
```

```
        //To draw a Rectangle
```

```
        canvas.drawText("Rectangle", 420, 150, paint);
```

```
canvas.drawRect(400, 200, 650, 700, paint);
```

```
//To draw a Circle
```

```
canvas.drawText("Circle", 120, 150, paint);
```

```
canvas.drawCircle(200, 350, 150, paint);
```

```
//To draw a Square
```

```
canvas.drawText("Square", 120, 800, paint);
```

```
canvas.drawRect(50, 850, 350, 1150, paint);
```

```
//To draw a Line
```

```
canvas.drawText("Line", 480, 800, paint);
```

```
canvas.drawLine(520, 850, 520, 1150, paint);
```

```
}
```

```
}
```

```
/*
```

```
activity_main.xml
```

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<RelativeLayout 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">
```

```
    <ImageView
```

```
        android:layout_width="match_parent"
```

```
        android:layout_height="match_parent"
```

```
        android:id="@+id/imageView"/>
```

```
</RelativeLayout>
```

* /