Ex4 – Application Development using Basic Graphical Primitives

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Generate the following using graphical primitives. a. Draw shapes such as Line, Circle, Rectangle and Arc b. Perform animation using any Image (Gif, Jpeg) c. Perform transformation – Rotation, Zooming d. Draw a car and animate the car.

Ex3 MainActivity.java:

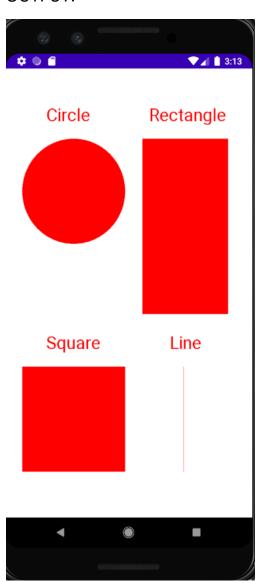
```
import android.app.Activity;
import android.graphics.Bitmap;
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.graphics.drawable.BitmapDrawable;
import android.wiagaphics.drawable.BitmapDrawable;
import android.wiagaphics.drawable.BitmapDrawable;
import android.wiagaphics.drawable.BitmapDrawable;
import android.wiaget.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.RED);
        paint.setTextSize(50);
        //To draw a Rectangle
        canvas.drawMext("Rectangle", 420, 150, paint);
        canvas.drawMext("Rectangle", 420, 150, paint);
        canvas.drawMext("Circle", 120, 150, paint);
        canvas.drawText("Square", 120, 800, paint);
        canvas.drawMext("Square", 120, 800, paint);
        canvas.drawAmext("Square", 120, 800, paint);
        canvas.drawAmext("Line", 480, 800, paint);
        canvas.drawText("Line", 480, 800, 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:layout_height="match_parent"
        android:id="@+id/imageView"/>
</RelativeLayout>
```

OUTPUT:



MainActivity.java:

```
oublic class ex4 main extends AppCompatActivity {
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       setContentView(R.layout.ex4 main);
       Button bt fade=findViewById(R.id.bt fade);
           public void onClick(View v) {
       bt car.setOnClickListener(new View.OnClickListener() {
```

Activity main.xml:

```
<?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="match_parent"
   android:layout_height="match_parent"
   tools:context="com.example.ex4_graphical_primitives.MainActivity">
   <Button
        android:id="@+id/bt_fade"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"/>
   <Button
        android:id="@+id/bt_rotate"
        android:layout_width="wrap_content"
        android:layout_beight="wrap_content"
        android:layout_beight="wrap_content"
        android:layout_below="@+id/bt_fade"
        android:layout_centerHorizontal="true"/>
   <Button
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_below="@+id/bt_rotate"
        android:layout_below="@+id/bt_rotate"
        android:layout_below="@+id/bt_rotate"
        android:layout_centerHorizontal="true"/>
   <Button
        android:layout_centerHorizontal="true"/>
   <Button
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
        android:layout_width="wrap_content"
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        android:layout_height="wrap_content"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content"</pre>
```

OUTPUT:

