# 2) activity\_main.xml

android:text="\*"

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
 android:id="@+id/main"
 android:layout width="match parent"
 android:layout_height="match_parent"
 tools:context=".MainActivity">
 <Button
   android:id="@+id/buttonsub"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_alignParentEnd="true"
   android:layout_alignParentBottom="true"
   android:layout_marginEnd="217dp"
   android:layout_marginBottom="534dp"
   android:text="-"
   android:textSize="16sp"
   tools:layout_editor_absoluteX="116dp"
   tools:layout_editor_absoluteY="153dp" />
 <Button
   android:id="@+id/buttonadd"
   android:layout width="wrap content"
   android:layout_height="wrap_content"
   android:layout_alignParentEnd="true"
   android:layout alignParentBottom="true"
   android:layout_marginEnd="314dp"
   android:layout_marginBottom="532dp"
   android:text="+"
   android:textSize="16sp"
   tools:layout editor absoluteX="28dp"
   tools:layout_editor_absoluteY="153dp" />
 <Button
   android:id="@+id/buttonmutli"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_alignParentEnd="true"
   android:layout_alignParentBottom="true"
   android:layout_marginEnd="13dp"
   android:layout_marginBottom="534dp"
```

```
android:textSize="16sp"
  tools:layout_editor_absoluteX="202dp"
  tools:layout_editor_absoluteY="153dp" />
<TextView
  android:id="@+id/textView5"
  android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout alignParentEnd="true"
 android:layout_alignParentBottom="true"
 android:layout_marginEnd="139dp"
  android:layout_marginBottom="666dp"
  android:text="CALCULATOR"
  android:textColor="#512DA8"
 android:textSize="24sp"
  android:textStyle="bold"
 app:layout_constraintBottom_toBottomOf="parent"
 app:layout constraintEnd toEndOf="parent"
 app:layout_constraintHorizontal_bias="0.498"
 app:layout_constraintStart_toStartOf="parent"
 app:layout_constraintTop_toTopOf="parent"
  app:layout_constraintVertical_bias="0.022" />
<Button
 android:id="@+id/buttondiv"
 android:layout width="wrap content"
  android:layout_height="wrap_content"
  android:layout alignParentEnd="true"
  android:layout_alignParentBottom="true"
 android:layout_marginEnd="114dp"
 android:layout_marginBottom="533dp"
 android:text="/"
 android:textSize="16sp"
 tools:layout_editor_absoluteX="290dp"
  tools:layout_editor_absoluteY="153dp" />
<Button
  android:id="@+id/Randomcolor"
 android:layout_width="wrap_content"
 android:layout height="wrap content"
 android:layout alignParentEnd="true"
  android:layout_alignParentBottom="true"
  android:layout_marginEnd="118dp"
 android:layout_marginBottom="469dp"
 android:text="Generate random color"
 android:textSize="14sp"
 tools:layout_editor_absoluteX="108dp"
```

tools:layout editor absoluteY="277dp" />

# <TextView android:id="@+id/textView4" android:layout width="wrap content" android:layout\_height="wrap\_content" android:layout alignParentEnd="true" android:layout\_alignParentBottom="true" android:layout\_marginEnd="134dp" android:layout\_marginBottom="339dp" android:text="Background Color" android:textColor="#512DA8" android:textSize="20sp" android:textStyle="bold" tools:layout\_editor\_absoluteX="124dp" tools:layout\_editor\_absoluteY="346dp" /> <TextView android:id="@+id/textView4" android:layout width="wrap content" android:layout\_height="wrap\_content" android:layout\_alignParentEnd="true" android:layout alignParentBottom="true" android:layout\_marginEnd="337dp" android:layout\_marginBottom="411dp" android:text="Result" android:textColor="#512DA8" android:textSize="20sp" android:textStyle="bold" tools:layout editor absoluteX="124dp" tools:layout\_editor\_absoluteY="346dp" /> <EditText android:id="@+id/editTextText" android:layout width="190dp" android:layout\_height="45dp" android:layout\_alignParentBottom="true" android:layout marginBottom="606dp" android:ems="10" android:inputType="text" android:text="First Number" android:textColor="#512DA8" tools:layout editor absoluteX="3dp" tools:layout\_editor\_absoluteY="73dp" /> <EditText android:id="@+id/editTextText2" android:layout\_width="202dp" android:layout\_height="46dp"

android:layout alignParentEnd="true"

```
android:layout_alignParentBottom="true"
  android:layout_marginEnd="8dp"
 android:layout_marginBottom="606dp"
 android:ems="10"
 android:inputType="text"
 android:text="Second Number"
 android:textColor="#512DA8"
 android:textColorLink="#512DA8"
 tools:layout_editor_absoluteX="202dp"
 tools:layout_editor_absoluteY="72dp" />
<Space
 android:layout width="4dp"
 android:layout height="20dp"
  android:layout_marginStart="404dp"
  app:layout_constraintStart_toStartOf="parent"
 tools:layout_editor_absoluteY="53dp" />
<Space
 android:id="@+id/space4"
 android:layout width="wrap content"
 android:layout_height="wrap_content"
 tools:layout_editor_absoluteX="201dp"
 tools:layout_editor_absoluteY="124dp" />
<Space
 android:id="@+id/space"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 tools:layout_editor_absoluteX="188dp"
 tools:layout_editor_absoluteY="55dp" />
<Space
 android:id="@+id/space2"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 app:layout_constraintStart_toStartOf="parent"
  tools:layout_editor_absoluteY="57dp" />
<Space
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 app:layout_constraintBottom_toTopOf="@+id/button2"
 tools:layout_editor_absoluteX="201dp" />
```

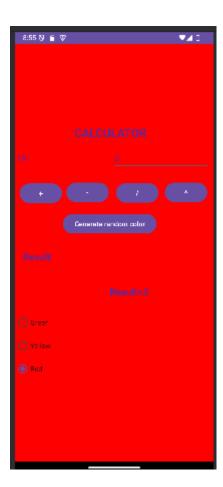
```
<Space
   android:id="@+id/space3"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   tools:layout_editor_absoluteX="204dp"
   tools:layout_editor_absoluteY="57dp" />
 <Space
   android:layout width="wrap content"
   android:layout_height="wrap_content"
   app:layout_constraintEnd_toEndOf="parent"
   tools:layout_editor_absoluteY="119dp" />
 <RadioGroup
   android:id="@+id/grp"
   android:layout_width="272dp"
   android:layout_height="266dp"
   android:layout_alignParentBottom="true"
   android:layout_marginBottom="47dp" >
   <RadioButton
     android:id="@+id/r1"
     android:layout_width="match_parent"
     android:layout_height="wrap_content"
     android:text="Green" />
   <RadioButton
     android:id="@+id/r2"
     android:layout width="match parent"
     android:layout_height="wrap_content"
     android:text="Yellow" />
   <RadioButton
     android:id="@+id/r3"
     android:layout_width="match_parent"
     android:layout_height="wrap_content"
     android:text="Red" />
 </RadioGroup>
</RelativeLayout>
```

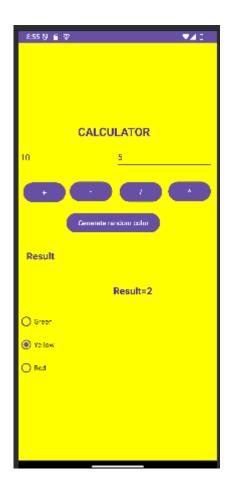
## MainActivity.java

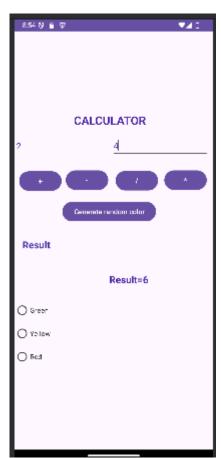
```
package com.example.test2;
import android.graphics.Color;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.RadioGroup;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
import java.util.Random;
public class MainActivity extends AppCompatActivity {
  EditText ed1, ed2;
  Button sub, add, multi, div;
  TextView Result;
  RadioGroup grp;
  Button Randomcolor;
  RadioButton r1,r2,r3;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    ed1 = findViewById(R.id.editTextText);
    ed2 = findViewById(R.id.editTextText2);
    sub = findViewById(R.id.buttonsub);
    add = findViewById(R.id.buttonadd);
    multi = findViewById(R.id.buttonmutli);
    div = findViewById(R.id.buttondiv);
    Result = findViewById(R.id.textView4);
    Randomcolor = findViewById(R.id.Randomcolor); // Initializing Randomcolor button
    grp = findViewById(R.id.grp);
    r1 = findViewById(R.id.r1);
    r2 = findViewById(R.id.r2);
    r3 = findViewById(R.id.r3);
    add.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        int t1, t2, res;
        t1 = Integer.parseInt(ed1.getText().toString());
        t2 = Integer.parseInt(ed2.getText().toString());
```

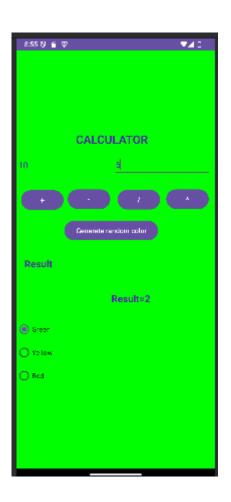
```
res = t1 + t2;
    Result.setText("Result=" + res);
});
sub.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View view) {
    int t1, t2, res;
    t1 = Integer.parseInt(ed1.getText().toString());
    t2 = Integer.parseInt(ed2.getText().toString());
    res = t1 - t2;
    Result.setText("Result=" + res);
});
multi.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View view) {
    int t1, t2, res;
    t1 = Integer.parseInt(ed1.getText().toString());
    t2 = Integer.parseInt(ed2.getText().toString());
    res = t1 * t2;
    Result.setText("Result=" + res);
});
div.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View view) {
    int t1, t2, res;
    t1 = Integer.parseInt(ed1.getText().toString());
    t2 = Integer.parseInt(ed2.getText().toString());
    res = t1 / t2;
    Result.setText("Result=" + res);
});
Randomcolor.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View view) {
    Random random = new Random();
    int color = Color.argb(220, random.nextInt(256), random.nextInt(256), random.nextInt(256));
    getWindow().getDecorView().setBackgroundColor(color);
});
grp.setOnCheckedChangeListener(new RadioGroup.OnCheckedChangeListener() {
  public void onCheckedChanged(RadioGroup radioGroup, int i) {
    switch (i){
      case R.id.r1:
```

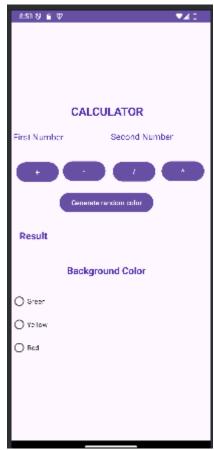


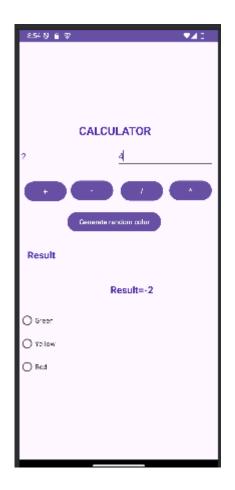


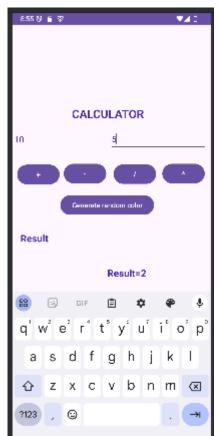


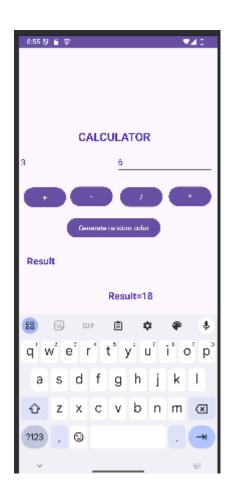












# 1) activity .xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
 android:id="@+id/main" android:layout_width="match_parent"
 android:layout_height="match_parent" android:background="@color/yellow"
 android:orientation="vertical" tools:context=".MainActivity">
 <TextView android:layout_width="match_parent"
   android:layout_height="83dp"
   android:gravity="center"
   android:text="HELLO WORLD!"
   android:layout_marginTop="250sp"
   android:textColor="@color/black"
   android:textSize="20sp"/>
 <LinearLayout android:layout_width="match_parent"</pre>
   android:layout_height="628dp"
   android:background="@color/yellow"
   android:orientation="vertical">
   <ImageView android:id="@+id/imageView6"</pre>
     android:layout_width="match_parent"
     android:layout_height="wrap_content"
     app:srcCompat="@drawable/download"/>
 </LinearLayout>
</LinearLayout>
```

#### java

```
package com.example.lab1;
import android.os.Bundle;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    EdgeToEdge.enable(this);
    setContentView(R.layout.activity_main);
    ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
      Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
      v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
      return insets;
```

}



## 3 output





## 4) display user profile

## activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 xmlns:app="http://schemas.android.com/apk/res-auto"
 xmlns:tools="http://schemas.android.com/tools"
 android:id="@+id/main"
 android:layout width="match parent"
 android:layout_height="match_parent"
 android:background="@color/light_yellow"
 tools:context=".MainActivity">
 <TextView
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Welcome To User Profile Application"
   android:textSize="25dp"
   android:textColor="@color/black"
   android:gravity="center"
   android:width="400dp"
   android:height="300dp"
   app:layout_constraintBottom_toBottomOf="parent"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintStart_toStartOf="parent"
   android:textStyle="bold"
   app:layout_constraintTop_toTopOf="parent" />
 <Button
   android:id="@+id/button1"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:width="100dp"
   android:layout_marginTop="250dp"
   android:layout_marginLeft="150dp"
   android:text="NEXT" />
</RelativeLayout>
```

## activity\_main2.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:id="@+id/main"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 android:background="@color/powder_blue"
 tools:context=".MainActivity">
 <TextView
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Enter Details To View Profile"
   android:textSize="25dp"
   android:textColor="@color/black"
   android:gravity="center"
   android:width="400dp"
   android:height="300dp"
   app:layout_constraintBottom_toBottomOf="parent"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintTop_toTopOf="parent" />
 <EditText
   android:id="@+id/editTextText1"
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:layout_marginLeft="100dp"
   android:layout_marginTop="200dp"
   android:ems="10"
   android:inputType="text"
   android:hint="Name:"
   android:textColorHint="@color/black" />
 <EditText
   android:id="@+id/editTextText2"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout_marginLeft="100dp"
   android:layout_marginTop="260dp"
   android:ems="10"
   android:inputType="text"
   android:hint="Email"
   android:textColorHint="@color/black" />
 <EditText
   android:id="@+id/editTextText3"
```

</RelativeLayout>

```
android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_marginLeft="100dp"
 android:layout_marginTop="320dp"
 android:ems="10"
 android:inputType="text"
 android:hint="Moblie No"
 android:textColorHint="@color/black"/>
<EditText
 android:id="@+id/editTextText4"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout marginLeft="100dp"
 android:layout_marginTop="380dp"
 android:ems="10"
 android:inputType="text"
 android:hint="Address"
 android:textColorHint="@color/black"/>
<Button
 android:id="@+id/button2"
 android:layout width="wrap content"
 android:layout_height="wrap_content"
 android:layout_marginTop="500dp"
 android:layout_marginLeft="150dp"
 android:text="Button" />
```

## activity.main4.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:id="@+id/main"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 android:background="@color/indian_red"
 tools:context=".MainActivity3">
 <TextView
   android:id="@+id/textview1"
   android:layout width="wrap content"
   android:layout_height="wrap_content"
   android:ems="10"
   android:inputType="text"
   android:layout_marginLeft="100dp"
   android:layout_marginTop="250dp"
   android:hint="Name:"
   android:textSize="20dp"
   android:textColorHint="@color/black"/>
 <TextView
   android:id="@+id/textview2"
   android:layout width="wrap content"
   android:layout_height="wrap_content"
   android:ems="10"
   android:inputType="text"
   android:layout_marginLeft="100dp"
   android:layout_marginTop="300dp"
   android:hint="Email:"
   android:textSize="20dp"
   android:textColorHint="@color/black"/>
 <TextView
   android:id="@+id/textview3"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:ems="10"
   android:inputType="text"
   android:layout_marginLeft="100dp"
   android:layout_marginTop="360dp"
   android:hint="Moblie No"
   android:textSize="20dp"
   android:textColorHint="@color/black"/>
```

</RelativeLayout>

```
<TextView
 android:id="@+id/textview4"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_marginLeft="100dp"
 android:layout_marginTop="420dp"
 android:ems="10"
 android:inputType="text"
 android:hint="Address"
 android:textSize="20dp"
 android:textColorHint="@color/black"/>
<Button
 android:id="@+id/button2"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:layout_marginLeft="150dp"
 android:layout_marginTop="530dp"
 android:textSize="20dp"
 android:text="Home" />
<ImageView
 android:id="@+id/imageView5"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 app:srcCompat="@drawable/images"
 android:layout_marginLeft="100dp"
 android:layout_marginTop="10dp"
 android:alpha="0.9"/>
```

## MainActivity.java

```
package com.example.test41;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
mport android.widget.Button;
import android.widget.TextView;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
  Button btn2;
  @SuppressLint("MissingInflatedId")
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main);
    btn2=findViewById(R.id.button1);
    String text=getIntent().getStringExtra("data");
    btn2.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        Intent i =new Intent(MainActivity.this, MainActivity2.class);
        startActivity(i);
    });
```

## MainActivity2.java

```
package com.example.test41;
import android.annotation.SuppressLint;
import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity2 extends AppCompatActivity {
    TextView ed1,ed2,ed3,ed4;
    String tag="event";
    Button btn1;
    @SuppressLint("MissingInflatedId")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.activity_main2);
      Log.d(tag,"hello");
      ed1=findViewById(R.id.editTextText1);
      ed2=findViewById(R.id.editTextText2);
      ed3=findViewById(R.id.editTextText3);
      ed4=findViewById(R.id.editTextText4);
      btn1=findViewById(R.id.button2);
      btn1.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
           Intent i=new Intent(MainActivity2.this, MainActivity3.class);
           String text1=ed1.getText().toString();
           i.putExtra("data1",text1);
           String text2=ed2.getText().toString();
          i.putExtra("data2",text2);
           String text3=ed3.getText().toString();
          i.putExtra("data3",text3);
           String text4=ed4.getText().toString();
          i.putExtra("data4",text4);
           startActivity(i);
```

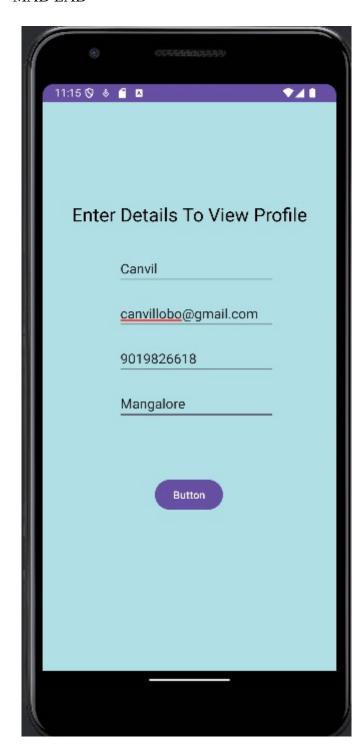
```
}
```

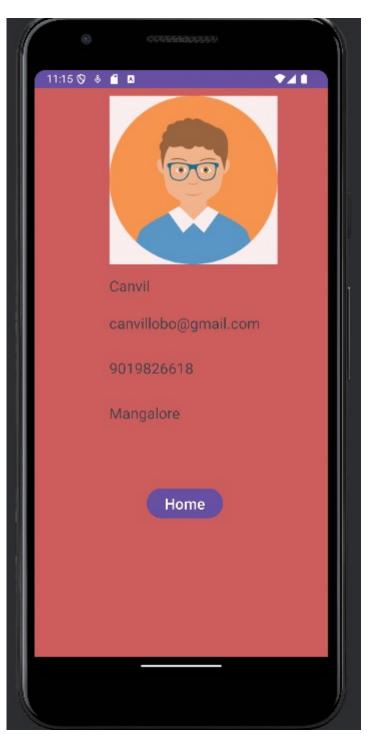
## MainActivity3.java

```
package com.example.test41;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import androidx.activity.EdgeToEdge;
mport androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity3 extends AppCompatActivity {
  TextView ed1,ed2,ed3,ed4;
  Button btn2;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main4);
    ed1=findViewById(R.id.textview1);
    ed2=findViewById(R.id.textview2);
    ed3=findViewById(R.id.textview3);
    ed4=findViewById(R.id.textview4);
    btn2=findViewById(R.id.button2);
    String text1=getIntent().getStringExtra("data1");
    ed1.setText(text1);
    String text2=getIntent().getStringExtra("data2");
    ed2.setText(text2);
    String text3=getIntent().getStringExtra("data3");
    ed3.setText(text3);
    String text4=getIntent().getStringExtra("data4");
    ed4.setText(text4);
    btn2.setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View view) {
        Intent i =new Intent(MainActivity3.this,MainActivity.class);
        startActivity(i);
```

```
}
}
```







## **Database prog 4 (helpline)**

## activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 xmlns:tools="http://schemas.android.com/tools"
 android:padding="16dp"
 android:background="@drawable/oww8w"
 tools:context=".MainActivity">
 <TextView
   android:id="@+id/title"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text="Enter Details"
   android:textSize="25dp"
   android:textStyle="bold"
   android:textColor="@color/black"
   android:gravity="center"
   android:layout centerHorizontal="true"
   android:layout_marginTop="50dp" />
 <EditText
   android:id="@+id/name"
   android:layout width="wrap content"
   android:layout_height="wrap_content"
   android:layout_below="@id/title"
   android:layout marginStart="100dp"
   android:layout_marginTop="57dp"
   android:textStyle="bold"
   android:ems="10"
   android:hint="Enter the Name"
   android:inputType="textPersonName"
   android:textColorHint="@color/black" />
 <EditText
   android:id="@+id/mobile"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:layout marginStart="100dp"
   android:layout_below="@id/name"
   android:layout_marginTop="20dp"
   android:textStyle="bold"
   android:ems="10"
   android:hint="Enter the Mobile No"
```

```
android:inputType="phone"
android:textColorHint="@color/black" />
<EditText
android:id="@+id/dob"</pre>
```

android:id="@+id/dob"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_marginStart="100dp"
android:layout\_below="@id/mobile"
android:layout\_marginTop="20dp"
android:ems="10"
android:textStyle="bold"
android:hint="Enter the Date of Birth"
android:inputType="date"
android:textColorHint="@color/black" />

#### <EditText

android:id="@+id/address"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_marginStart="100dp"
android:layout\_below="@id/dob"
android:layout\_marginTop="20dp"
android:textStyle="bold"
android:ems="10"
android:hint="Enter the Address"
android:inputType="textPostalAddress"
android:textColorHint="@color/black" />

#### <Button

android:id="@+id/insert"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_marginTop="400dp"
android:layout\_marginLeft="100dp"
android:backgroundTint="@color/black"
android:text="Insert" />

#### <Button

android:id="@+id/view"
android:layout\_width="wrap\_content"
android:layout\_height="wrap\_content"
android:layout\_marginTop="400dp"
android:layout\_xmlmarginLeft="200dp"
android:backgroundTint="@color/black"
android:text="View" />

</RelativeLayout>

## mydbhelpler.java

```
package com.example.db4;
import android.content.ContentValues;
mport android.content.Context;
import android.database.Cursor;
mport android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import androidx.annotation.Nullable;
public class mydbhelper extends SQLiteOpenHelper {
  private static final String DATABASE_NAME = "userdb.db";
  private static final int DATABASE_VERSION = 1;
  private static final String TABLE_NAME = "usertable";
  private static final String COLUMN_NAME = "name";
  private static final String COLUMN_NO = "mobile";
  private static final String COLUMN_DOB = "dob";
  private static final String COLUMN_CITY = "address";
  public mydbhelper(@Nullable Context context) {
    super(context, DATABASE_NAME, null, DATABASE_VERSION);
  @Override
  public void onCreate(SQLiteDatabase db) {
    // Corrected CREATE TABLE query
    String CREATE TABLE = "CREATE TABLE " + TABLE NAME + " (" +
        COLUMN_NAME + " TEXT, " +
        COLUMN_NO + " TEXT, " +
        COLUMN_DOB + " TEXT, " +
        COLUMN CITY + " TEXT)";
    db.execSQL(CREATE_TABLE);
  @Override
  public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
    // Drop the table if it exists and recreate it
    db.execSQL("DROP TABLE IF EXISTS " + TABLE_NAME);
    onCreate(db);
  // Method to insert data
  public boolean insertdata(String name, String mobile, String address, String dob) {
    SQLiteDatabase db = this.getWritableDatabase();
```

```
ContentValues values = new ContentValues();
values.put(COLUMN_NAME, name);
values.put(COLUMN_NO, mobile);
values.put(COLUMN_CITY, address);
values.put(COLUMN_DOB, dob);

long result = db.insert(TABLE_NAME, null, values);
return result != -1; // return true if insert is successful, false otherwise
}

// Method to retrieve data

public Cursor getdata() {
    SQLiteDatabase db = this.getWritableDatabase();
    return db.rawQuery("SELECT * FROM " + TABLE_NAME, null);
}
```

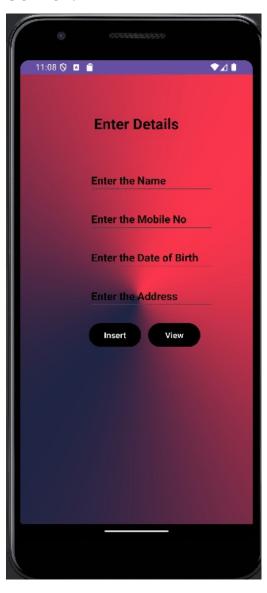
## MainActivity.java

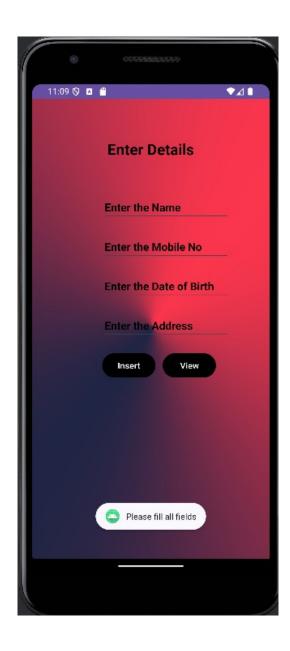
```
package com.example.db4;
import android.annotation.SuppressLint;
import android.database.Cursor;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  EditText name, mobile, dob, address;
  Button insert, view;
  @SuppressLint("MissingInflatedId")
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    // Initialize the views
    name = findViewById(R.id.name);
    mobile = findViewById(R.id.mobile);
    dob = findViewById(R.id.dob);
```

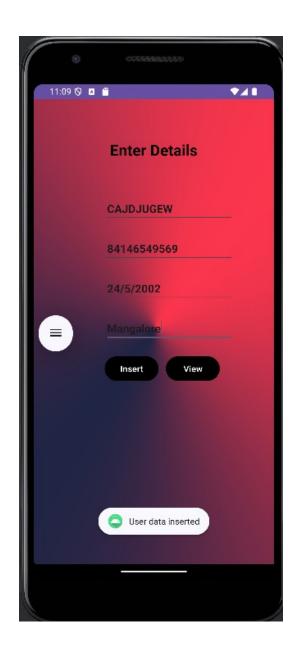
```
address = findViewById(R.id.address);
insert = findViewById(R.id.insert);
view = findViewById(R.id.view);
mydbhelper db = new mydbhelper(this);
// Insert button onClick listener
insert.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View view) {
    String Username = name.getText().toString().trim();
    String Userno = mobile.getText().toString().trim();
    String Userdob = dob.getText().toString().trim();
    String Useradd = address.getText().toString().trim();
    // Check for empty fields
    if (Username.isEmpty() || Userno.isEmpty() || Userdob.isEmpty() || Useradd.isEmpty()) {
      Toast.makeText(MainActivity.this, "Please fill all fields", Toast.LENGTH_SHORT).show();
      return;
    boolean checkinsert = db.insertdata(Username, Userno, Userdob, Useradd);
    if (checkinsert) {
      Toast.makeText(MainActivity.this, "User data inserted", Toast.LENGTH_SHORT).show();
    } else {
      Toast.makeText(MainActivity.this, "User data not inserted", Toast.LENGTH_SHORT).show();
});
// View button onClick listener
view.setOnClickListener(new View.OnClickListener() {
  @Override
  public void onClick(View v) {
    Cursor res = db.getdata();
    if (res.getCount() == 0) {
      Toast.makeText(MainActivity.this, "No entry exists", Toast.LENGTH_SHORT).show();
    StringBuffer buffer = new StringBuffer();
    while (res.moveToNext()) {
      buffer.append("Name: " + res.getString(0) + "\n");
      buffer.append("Mobile: " + res.getString(1) + "\n");
      buffer.append("DOB: " + res.getString(2) + "\n");
      buffer.append("Address: " + res.getString(3) + "\n\n");
    AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);
    builder.setCancelable(true);
    builder.setTitle("User Entries");
```

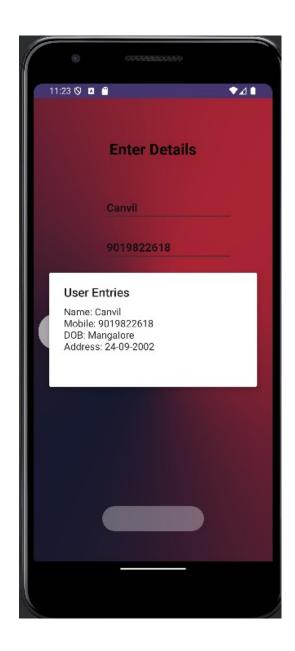
```
builder.setMessage(buffer.toString());
    builder.show();
    }
});
}
```

## **OUTPUT:-**









## 11) graphics

## activity.main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</p>
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:id="@+id/main"
 android:layout_width="match_parent"
 android:layout_height="match_parent"
 android:background="@color/pale_green"
 tools:context=".MainActivity">
 <TextView
    android:id="@+id/textView"
   android:layout_width="wrap_content"
   android:layout_height="wrap_content"
   android:text=""
   app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintHorizontal_bias="0.498"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.387" />
 <Button
   android:id="@+id/Bt1"
   android:layout width="166dp"
   android:layout_height="78dp"
    android:backgroundTint="@color/black"
   android:text="Graphics"
   app:layout constraintBottom toBottomOf="parent"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintTop_toTopOf="parent"
   app:layout_constraintVertical_bias="0.321" />
 <Button
    android:id="@+id/Bt2"
   android:layout_width="166dp"
   android:layout_height="81dp"
   android:layout_marginBottom="256dp"
   android:backgroundTint="@color/black"
   android:text="Animation"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
   app:layout_constraintHorizontal_bias="0.51"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintTop_toBottomOf="@+id/textView" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

## MainActivity.java

```
package com.example.test11graphics;
import android.content.Intent;
import android.os.Bundle;
mport android.view.View;
import android.widget.Button;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  Button Bt1;
  Button Bt2;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    Bt1 = findViewById(R.id.Bt1);
    Bt2 = findViewById(R.id.Bt2);
    Bt1.setOnClickListener(view -> {
      Intent i = new Intent(MainActivity.this, MainActivity2.class);
      startActivity(i);
    });
    Bt2.setOnClickListener(view -> {
      Intent i = new Intent(MainActivity.this, MainActivity3.class);
      startActivity(i);
```

#### activity\_main2.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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@color/black"</pre>
```

```
tools:context=".MainActivity">
<ImageView
 android:id="@+id/imageView"
 android:layout_width="403dp"
 android:layout height="433dp"
 app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="1.0"
  app:layout constraintStart toStartOf="parent"
 app:layout_constraintTop_toTopOf="parent"
 app:layout_constraintVertical_bias="0.164"
  tools:srcCompat="@tools:sample/avatars" />
<Button
 android:id="@+id/button3"
 android:layout_width="128dp"
 android:layout_height="71dp"
 android:text="@string/rectangle"
 android:textSize="16sp"
 app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout constraintHorizontal bias="0.21"
  app:layout_constraintStart_toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/imageView"
 app:layout_constraintVertical_bias="0.125"
 tools:ignore="DuplicateIds" />
<Button
 android:id="@+id/button4"
  android:layout_width="125dp"
 android:layout_height="63dp"
 android:text="Square"
 android:textSize="16sp"
 app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.818"
  app:layout constraintStart toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/imageView"
 app:layout_constraintVertical_bias="0.123" />
<Button
 android:id="@+id/button5"
 android:layout width="121dp"
  android:layout_height="66dp"
 android:layout_marginTop="128dp"
 android:text="Circle"
 android:textSize="16sp"
 app:layout_constraintBottom_toBottomOf="parent"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout constraintHorizontal bias="0.21"
```

```
app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintTop_toBottomOf="@+id/imageView"
   app:layout_constraintVertical_bias="0.0" />
 <Button
   android:id="@+id/button6"
   android:layout width="119dp"
   android:layout_height="65dp"
   android:layout_marginTop="128dp"
   android:text="@string/line"
   android:textSize="16sp"
   app:layout_constraintBottom_toBottomOf="parent"
   app:layout_constraintEnd_toEndOf="parent"
   app:layout constraintHorizontal bias="0.801"
   app:layout_constraintStart_toStartOf="parent"
   app:layout_constraintTop_toBottomOf="@+id/imageView"
   app:layout_constraintVertical_bias="0.0" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

## MainActivity2.java

```
package com.example.test11graphics;
import android.graphics.Bitmap;
import android.graphics.Canvas;
import android.graphics.Color;
import android.graphics.Paint;
import android.os.Bundle;
import android.widget.Button;
import android.widget.ImageView;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity2 extends AppCompatActivity {
 ImageView img;
  Button rect, squ, cir, line;
  Bitmap bp;
  Canvas c;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main2);
    img = findViewById(R.id.imageView);
    rect = findViewById(R.id.button3);
    squ = findViewById(R.id.button4);
    cir = findViewById(R.id.button5);
    line = findViewById(R.id.button6);
    bp = Bitmap.createBitmap(520, 1200, Bitmap.Config.ARGB_8888);
```

```
img.setImageBitmap(bp);
c = new Canvas(bp);
rect.setOnClickListener(v -> {
  Paint p = new Paint();
  p.setColor(Color.BLUE);
  p.setTextSize(50);
  c.drawText("Rectangle", 10, 150, p);
  c.drawRect(30, 200, 200, 600, p);
});
squ.setOnClickListener(v -> {
  Paint p1 = new Paint();
  p1.setColor(Color.RED);
  p1.setTextSize(50);
  c.drawText("Square", 300, 150, p1);
  c.drawRect(250, 200, 480, 400, p1);
});
cir.setOnClickListener(v -> {
  Paint p2 = new Paint();
  p2.setColor(Color.MAGENTA);
  p2.setTextSize(50);
  c.drawText("Circle", 70, 700, p2);
  c.drawCircle(130, 860, 120, p2);
});
line.setOnClickListener(v -> {
  Paint p3 = new Paint();
  p3.setColor(Color.WHITE);
  p3.setTextSize(50);
  p3.setStrokeWidth(20);
  c.drawText("Line", 350, 700, p3);
  c.drawLine(350, 800, 800, 800, p3);
});
```

## activity\_main3.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"
    android:background="@color/indian_red"
    tools:context=".MainActivity3">
<!-- ImageView in the center top -->
```

```
<ImageView
  android:id="@+id/imageView2"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:src="@drawable/download"
 android:layout marginTop="32dp"
 android:layout_centerHorizontal="true"
 android:layout_alignParentTop="true"
 android:contentDescription="TODO" />
<!-- Fade Button (Left side, below ImageView) -->
<Button
 android:id="@+id/button7"
 android:layout width="wrap content"
 android:layout height="wrap content"
  android:text="@string/fad"
 android:layout_marginStart="60dp"
 android:layout_marginTop="92dp"
 android:backgroundTint="@color/black"
 android:layout_below="@id/imageView2"
 android:layout_alignParentStart="true" />
<!-- Rotate Button (Right side, below ImageView) -->
<Button
 android:id="@+id/button8"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
 android:text="@string/rotat"
 android:layout_marginEnd="76dp"
 android:layout marginTop="92dp"
  android:backgroundTint="@color/black"
 android:layout_below="@id/imageView2"
 android:layout_alignParentEnd="true" />
<!-- Zoom Button (Left side, below Fade Button) -->
<Button
 android:id="@+id/button9"
 android:layout width="wrap content"
 android:layout_height="wrap_content"
 android:text="@string/zoo"
 android:layout_marginStart="60dp"
 android:layout_marginTop="132dp"
 android:backgroundTint="@color/black"
 android:layout_below="@id/button7"
 android:layout_alignParentStart="true" />
<!-- Blink Button (Right side, below Rotate Button) -->
<Button
 android:id="@+id/button10"
 android:layout_width="wrap_content"
 android:layout_height="wrap_content"
```

```
android:text="@string/blin"
android:layout_marginEnd="76dp"
android:layout_marginTop="132dp"
android:backgroundTint="@color/black"
android:layout_below="@id/button8"
android:layout_alignParentEnd="true" />
</RelativeLayout>
```

## MainActivity3.java

```
package com.example.test11graphics;
import android.os.Bundle;
import android.view.animation.Animation;
import android.view.animation.AnimationUtils;
mport android.widget.Button;
import android.widget.ImageView;
import android.widget.TextView;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity3 extends AppCompatActivity {
  Button fadeBtn, rotateBtn, zoomBtn, blinkBtn;
  ImageView textView;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main3);
    textView = findViewById(R.id.imageView2);
    fadeBtn = findViewById(R.id.button7);
    rotateBtn = findViewById(R.id.button8);
    zoomBtn = findViewById(R.id.button9);
    blinkBtn = findViewById(R.id.button10);
    // Fade Animation
    fadeBtn.setOnClickListener(v -> {
      Animation fade = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.fade);
      textView.startAnimation(fade);
    // Rotate Animation
    rotateBtn.setOnClickListener(v -> {
      Animation rotate = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.rotate);
      textView.startAnimation(rotate);
    });
```

```
// Zoom Animation
zoomBtn.setOnClickListener(v -> {
    Animation zoom = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.zoom);
    textView.startAnimation(zoom);
});

// Blink Animation
blinkBtn.setOnClickListener(v -> {
    Animation blink = AnimationUtils.loadAnimation(getApplicationContext(), R.anim.blink);
    textView.startAnimation(blink);
});
}
```

#### blink.xml

```
<?xml version="1.0" encoding="utf-8"?>
<alpha xmlns:android="http://schemas.android.com/apk/res/android"
    android:duration="300"
    android:fromAlpha="1.0"
    android:toAlpha="0.0"
    android:repeatCount="infinite"
    android:repeatMode="reverse" />
```

#### rotate.xml

```
<?xml version="1.0" encoding="utf-8"?>
<rotate xmlns:android="http://schemas.android.com/apk/res/android"
    android:duration="2000"
    android:fromDegrees="0"
    android:pivotX="50%"
    android:pivotY="50%"
    android:toDegrees="360" />
```

#### fade.xml

```
<?xml version="1.0" encoding="utf-8"?>
<alpha xmlns:android="http://schemas.android.com/apk/res/android"
    android:duration="2000"
    android:fromAlpha="1.0"
    android:toAlpha="0.0" />
```

#### zoom.xml

```
<?xml version="1.0" encoding="utf-8"?>
<scale xmlns:android="http://schemas.android.com/apk/res/android"
android:duration="2000"
```

```
android:fromXScale="1.0"
android:fromYScale="1.0"
android:toXScale="2.0"
android:toYScale="2.0"
android:pivotX="50%"
android:pivotY="50%" />
```

