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## **COURSE OUTCOME2**

## **PROGRAM 5**

**AIM** : Design a registration activity and store registration details in local memory of phone using Intents and SharedPreferences

### **PROGRAM CODE**

JAVA CODE	<pre>package com.example.sharedpreference;  import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; import android.content.SharedPreferences; import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.TextView; public class MainActivity extends AppCompatActivity {      EditText edt1,edt2,edt3,edt4,edt5;     Button bt;     TextView t1,t2,t3,t4,t5,t6,t7,t8,t9,t10;      @Override     protected void onCreate(Bundle savedInstanceState) {         super.onCreate(savedInstanceState);         setContentView(R.layout.activity_main);          edt1=(EditText) findViewById(R.id.editcheck);         edt2=(EditText) findViewById(R.id.editText);         edt3=(EditText) findViewById(R.id.editText2);         edt4=(EditText) findViewById(R.id.editText3);         edt5=(EditText) findViewById(R.id.editText4);         bt=(Button) findViewById(R.id.button);         t1=(TextView) findViewById(R.id.textView);         t2=(TextView) findViewById(R.id.textView2);         t3=(TextView) findViewById(R.id.textView3);         t4=(TextView) findViewById(R.id.textView4);         t5=(TextView) findViewById(R.id.textView5);         t6=(TextView) findViewById(R.id.textView6);         t7=(TextView) findViewById(R.id.textView7);         t8=(TextView) findViewById(R.id.textView8);         t9=(TextView) findViewById(R.id.textView9);         t10=(TextView) findViewById(R.id.textView10);         bt.setOnClickListener(new View.OnClickListener() {              @Override</pre>
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	<pre> public void onClick(View v) {     SharedPreferences     sharedpref=getSharedPreferences("pref",MODE_PRIVATE);     SharedPreferences.Editor editor=sharedpref.edit();     editor.putString("key",edt1.getText().toString());     editor.putString("key1",edt2.getText().toString());     editor.putString("key2",edt3.getText().toString());     editor.putString("key3",edt4.getText().toString());     editor.putString("key4",edt5.getText().toString());     editor.apply(); }  }); SharedPreferences getsharedValue=getSharedPreferences("pref",MODE_PRIVATE); String value=getsharedValue.getString("key","this is the default value for pref"); t6.setText(value); String value1=getsharedValue.getString("key1","this is the default value for pref"); t7.setText(value1); String value2=getsharedValue.getString("key2","this is the default value for pref"); t8.setText(value2); String value3=getsharedValue.getString("key3","this is the default value for pref"); t9.setText(value3); String value4=getsharedValue.getString("key4","this is the default value for pref"); t10.setText(value4);  } } </pre>
XML CODE	<pre> &lt;?xml version="1.0" encoding="utf-8"?&gt; &lt;android.support.constraint.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"&gt;  &lt;EditText android:id="@+id/editcheck" android:layout_width="148dp" android:layout_height="43dp" android:layout_marginTop="8dp" android:layout_marginBottom="8dp" </pre>

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android:ems="10" android:hint="Enter username"
android:inputType="textPersonName"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.822"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.07" />

<Button android:id="@+id/button"
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:layout_marginStart="158dp" android:layout_marginTop="8dp"
android:layout_marginEnd="159dp"
android:layout_marginBottom="8dp" android:text="Save"
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="0.615" />

<TextView android:id="@+id/textView6" android:layout_width="151dp"
android:layout_height="20dp" android:layout_marginStart="165dp"
android:layout_marginTop="8dp" android:layout_marginEnd="189dp"
android:layout_marginBottom="50dp"
android:text="Do You Want to save this Username"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.504"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.773" />

<TextView android:id="@+id/textView"
android:layout_width="115dp" android:layout_height="33dp"
android:layout_marginStart="8dp" android:layout_marginTop="8dp"
android:layout_marginEnd="8dp" android:layout_marginBottom="8dp"
android:text="Name"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.221"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"

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app:layout_constraintVertical_bias="0.069" />

<TextView android:id="@+id/textView2" android:layout_width="64dp"
android:layout_height="30dp" android:layout_marginStart="8dp"
android:layout_marginTop="8dp" android:layout_marginEnd="8dp"
android:layout_marginBottom="8dp" android:text="Age"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.207"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.18" />

<EditText android:id="@+id/editText" android:layout_width="142dp"
android:layout_height="42dp" android:layout_marginStart="8dp"
android:layout_marginTop="8dp" android:layout_marginEnd="8dp"
android:layout_marginBottom="8dp" android:ems="10"
android:hint="Enter age" android:inputType="textPersonName"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.849"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.182" />

<TextView android:id="@+id/textView3" android:layout_width="71dp"
android:layout_height="28dp" android:layout_marginStart="8dp"
android:layout_marginTop="8dp" android:layout_marginEnd="8dp"
android:layout_marginBottom="8dp" android:ems="10" android:hint="Enter email"
android:inputType="textPersonName"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.793"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.389" />

<TextView android:id="@+id/textView5"
android:layout_width="wrap_content" android:layout_height="25dp"
android:layout_marginStart="8dp" android:layout_marginTop="8dp"
android:layout_marginEnd="8dp" android:layout_marginBottom="8dp"
android:text="Password"
app:layout_constraintBottom_toBottomOf="parent"

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app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.205"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.493" />

<EditText android:id="@+id/editText4" android:layout_width="99dp"
android:layout_height="39dp" android:layout_marginStart="8dp"
android:layout_marginTop="8dp" android:layout_marginEnd="8dp"
android:layout_marginBottom="8dp" android:ems="10"
android:hint="Enter password"
android:inputType="textPersonName"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.713"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />

<TextView android:id="@+id/textView7" android:layout_width="149dp"
android:layout_height="21dp" android:layout_marginStart="8dp"
android:layout_marginTop="8dp" android:layout_marginEnd="8dp"
android:layout_marginBottom="8dp" android:text="TextView"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.452"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.772" />

<TextView android:id="@+id/textView8" android:layout_width="172dp"
android:layout_height="21dp" android:layout_marginStart="8dp"
android:layout_marginTop="8dp" android:layout_marginEnd="8dp"
android:layout_marginBottom="8dp" android:text="TextView"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.841" />

<TextView android:id="@+id/textView9" android:layout_width="149dp"
android:layout_height="23dp" android:layout_marginStart="8dp"
android:layout_marginTop="8dp" android:layout_marginEnd="8dp"
android:layout_marginBottom="8dp" android:text="TextView"
app:layout_constraintBottom_toBottomOf="parent"

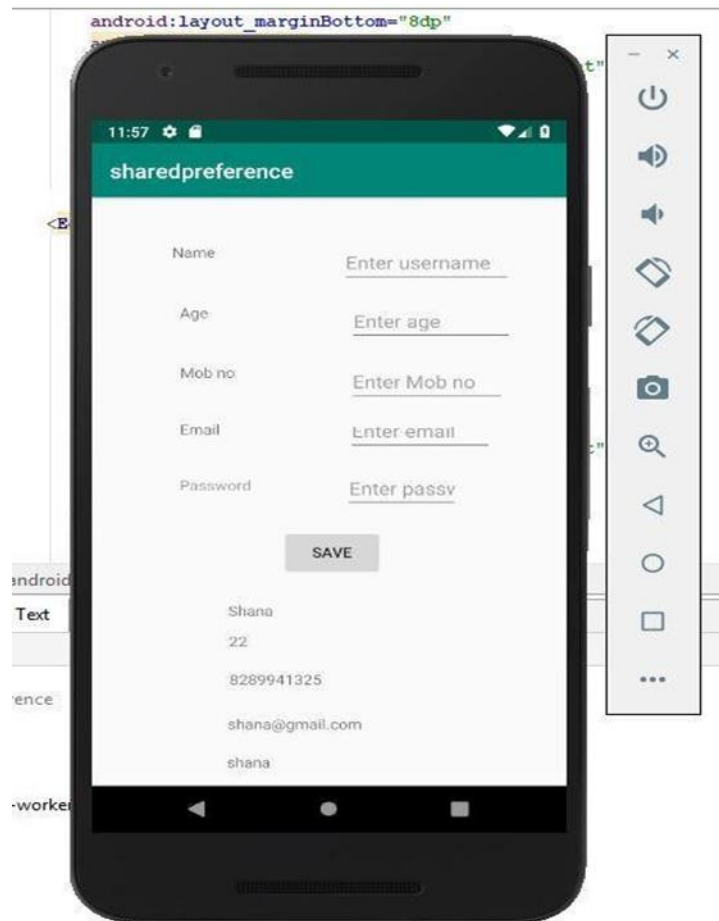
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app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.447"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.925" />

<TextView android:id="@+id/textView10"
android:layout_width="140dp" android:layout_height="26dp"
android:layout_marginStart="8dp" android:layout_marginTop="8dp"
android:layout_marginEnd="8dp" android:layout_marginBottom="8dp"
android:text="TextView"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.429"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="1.0" />

</android.support.constraint.ConstraintLayout>
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## OUTPUT



**RESULT:** The above program is successfully executed and obtained the output



## **PROGRAM 6**

**AIM:** Design a simple Calculator using GridLayout and Cascaded LinearLayout

### **PROGRAM CODE**

JAVA CODE	<pre>package com.example.gridcalculator; import android.os.Bundle; import androidx.appcompat.app.AppCompatActivity; import android.view.View; import android.widget.Button; import android.widget.EditText;  public class MainActivity extends AppCompatActivity {      Button button0, button1, button2, button3, button4, button5, button6,     button7, button8, button9, buttonAdd, buttonSub, buttonDivision,     buttonMul, buttond, buttonC, buttonEqual,buttonperc;     EditText cEditText;     float mValueOne, mValueTwo;     boolean cAddition, mSubtract, cMultiplication, cDivision,cperc;      @Override protected void onCreate(Bundle savedInstanceState) {         super.onCreate(savedInstanceState);         setContentView(R.layout.activity_main);         button0 = (Button) findViewById(R.id.button15);         button1 = (Button) findViewById(R.id.button8);         button2 = (Button) findViewById(R.id.button14);         button3 = (Button) findViewById(R.id.button18);         button4 = (Button) findViewById(R.id.button7);         button5 = (Button) findViewById(R.id.button13);         button6 = (Button) findViewById(R.id.button16);         button7 = (Button) findViewById(R.id.button6);         button8 = (Button) findViewById(R.id.button10);         button9 = (Button) findViewById(R.id.button11);         buttond = (Button) findViewById(R.id.button19);         buttonAdd = (Button) findViewById(R.id.button20);         buttonSub = (Button) findViewById(R.id.button17);         buttonMul = (Button) findViewById(R.id.button12);         buttonDivision = (Button) findViewById(R.id.button5);         buttonC = (Button) findViewById(R.id.button2);         buttonperc = (Button) findViewById(R.id.button4);         buttonEqual = (Button) findViewById(R.id.button21);         cEditText = (EditText) findViewById(R.id.edt1);         button1.setOnClickListener(new View.OnClickListener() {</pre>
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	<pre> @Override public void onClick(View v) { cEditText.setText(cEditText.getText() + "1"); } }); button2.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { cEditText.setText(cEditText.getText() + "2"); } }); button3.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { cEditText.setText(cEditText.getText() + "3"); } }); button4.setOnClickListener(new View.OnClickListener() { @Override public void onClick(View v) { cEditText.setText(cEditText.getText() + "4"); } }); button5.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { cEditText.setText(cEditText.getText() + "5"); } }); button6.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { cEditText.setText(cEditText.getText() + "6"); } }); button7.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { cEditText.setText(cEditText.getText() + "7"); } }); button8.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { cEditText.setText(cEditText.getText() + "8"); } }); button9.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { cEditText.setText(cEditText.getText() + "9"); } }); </pre>
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	<pre> button0.setOnClickListener(new View.OnClickListener() {  @Override  public void onClick(View v) { cEditText.setText(cEditText.getText() + "0"); } }); buttonAdd.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { if (cEditText == null) { cEditText.setText(""); } else { mValueOne = Float.parseFloat(cEditText.getText() + ""); cAddition = true; cEditText.setText(null); } } }); buttonSub.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { mValueOne = Float.parseFloat(cEditText.getText() + ""); mSubtract = true; cEditText.setText(null); } }); buttonMul.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { mValueOne = Float.parseFloat(cEditText.getText() + ""); cMultiplication = true; cEditText.setText(null); } }); buttonDivision.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { mValueOne = Float.parseFloat(cEditText.getText() + ""); cDivision = true; cEditText.setText(null); } }); buttonperc.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { mValueOne = Float.parseFloat(cEditText.getText() + ""); cperc = true; cEditText.setText(null); } }); buttonEqual.setOnClickListener(new View.OnClickListener() {  @Override </pre>
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	<pre> public void onClick(View v) { mValueTwo = Float.parseFloat(cEditText.getText() + ""); if (cAddition == true) { cEditText.setText(mValueOne + mValueTwo + ""); cAddition = false; } if (mSubtract == true) { cEditText.setText(mValueOne - mValueTwo + ""); mSubtract = false; } if (cMultiplication == true) { cEditText.setText(mValueOne * mValueTwo + ""); cMultiplication = false; } if (cDivision == true) { cEditText.setText(mValueOne / mValueTwo + ""); cDivision = false; } if (cperc == true) { cEditText.setText((mValueOne / mValueTwo)*100 + ""); cperc = false; } } }); buttonC.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { cEditText.setText(""); } }); buttond.setOnClickListener(new View.OnClickListener() {  @Override public void onClick(View v) { cEditText.setText(cEditText.getText() + "."); } }); } } </pre>
XML CODE	<pre> &lt;?xml version="1.0" encoding="utf-8"?&gt; &lt;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" android:background="#F6CACA" tools:context=".MainActivity"&gt; &lt;android.widget.GridLayout android:id="@+id/gridLayout" android:layout_width="398dp" android:layout_height="496dp" android:layout_marginStart="1dp" android:layout_marginTop="45dp" android:layout_marginEnd="1dp" </pre>

	<pre> app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toBottomOf="@+id/edt1"&gt; &lt;Button android:id="@+id/button2" android:layout_width="100dp" android:layout_height="60dp" android:text="C" android:textSize="20sp" app:layout_column="0" app:layout_row="0" /&gt; &lt;Button android:id="@+id/button3" android:layout_width="98dp" android:layout_height="60dp" android:text="(" android:textSize="20sp" app:layout_column="1" app:layout_row="0" /&gt; &lt;Button android:id="@+id/button4" android:layout_width="wrap_content" android:layout_height="60dp" android:text="%" android:textSize="20sp" app:layout_column="2" app:layout_row="0" /&gt; &lt;Button android:id="@+id/button5" android:layout_width="121dp" android:layout_height="64dp" android:layout_row="0" android:layout_column="3" android:text="/" android:textSize="20sp" app:layout_column="3" app:layout_row="0" /&gt; &lt;Button android:id="@+id/button6" android:layout_width="91dp" android:layout_height="59dp" android:layout_row="1" android:layout_column="0" android:text="7" android:textSize="20sp" app:layout_column="0" </pre>
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	<pre> app:layout_row="1" /&gt; &lt;Button android:id="@+id/button7" android:layout_width="wrap_content" android:layout_height="60dp" android:layout_row="2" android:layout_column="1" android:text="4" android:textSize="20sp" app:layout_column="0" app:layout_row="2" /&gt; &lt;Button android:id="@+id/button8" android:layout_width="wrap_content" android:layout_height="61dp" android:layout_row="1" android:layout_column="2" android:text="1" android:textSize="20sp" app:layout_column="0" app:layout_row="3" /&gt; &lt;Button android:id="@+id/button9" android:layout_width="123dp" android:layout_height="65dp" android:text="+/-" android:textSize="20sp" app:layout_column="0" app:layout_row="4" /&gt; &lt;Button android:id="@+id/button10" android:layout_width="wrap_content" android:layout_height="61dp" android:layout_row="4" android:layout_column="0" android:text="8" android:textSize="20sp" app:layout_column="1" app:layout_row="1" /&gt; &lt;Button android:id="@+id/button11" android:layout_width="wrap_content" android:layout_height="59dp" android:layout_row="4" android:layout_column="1" android:text="9" </pre>
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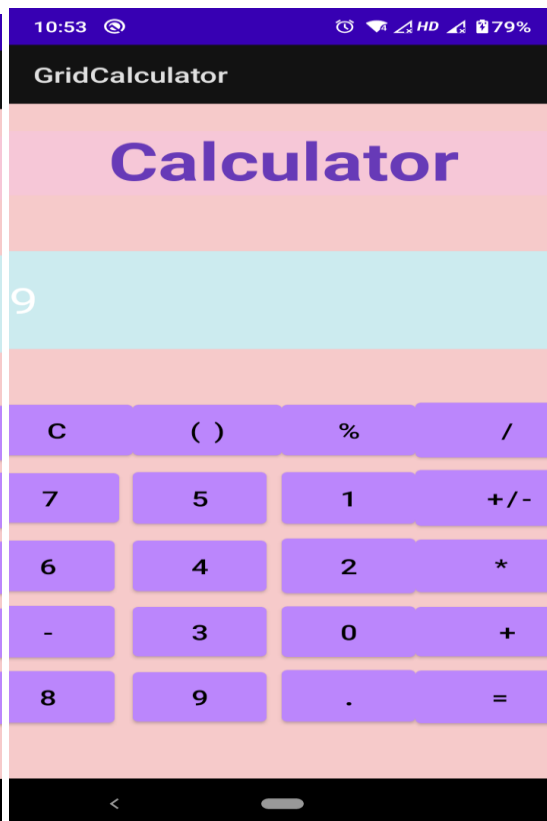
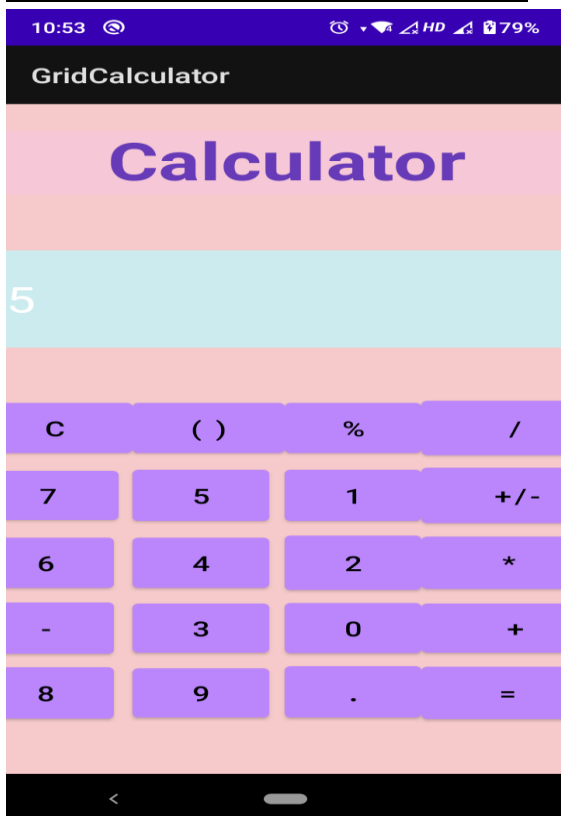
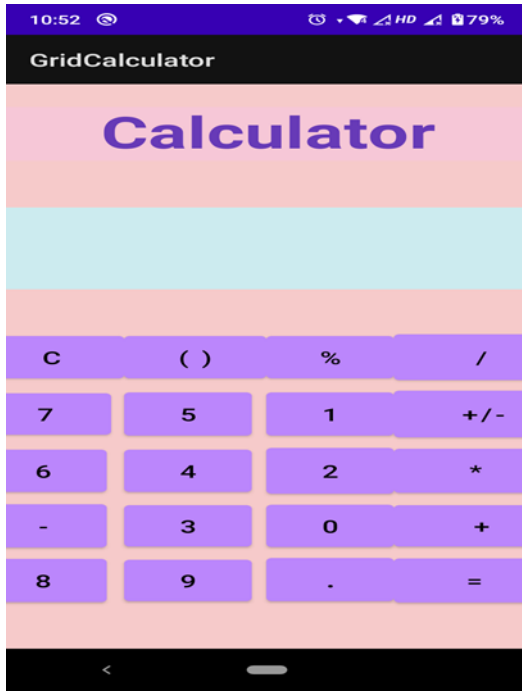
	<pre> android:textSize="20sp" app:layout_column="2" app:layout_row="1" /&gt; &lt;Button android:id="@+id/button12" android:layout_width="113dp" android:layout_height="62dp" android:layout_row="2" android:layout_column="3" android:text="*" android:textSize="20sp" app:layout_column="3" app:layout_row="1" /&gt; &lt;Button android:id="@+id/button13" android:layout_width="wrap_content" android:layout_height="61dp" android:layout_row="1" android:layout_column="1" android:text="5" android:textSize="20sp" app:layout_column="1" app:layout_row="2" /&gt; &lt;Button android:id="@+id/button14" android:layout_width="wrap_content" android:layout_height="64dp" android:layout_row="2" android:layout_column="2" android:text="2" android:textSize="20sp" app:layout_column="1" app:layout_row="3" /&gt; &lt;Button android:id="@+id/button15" android:layout_width="wrap_content" android:layout_height="60dp" android:layout_row="3" android:layout_column="2" android:text="0" android:textSize="20sp" app:layout_column="1" app:layout_row="4" /&gt; &lt;Button android:id="@+id/button16" android:layout_width="wrap_content" </pre>
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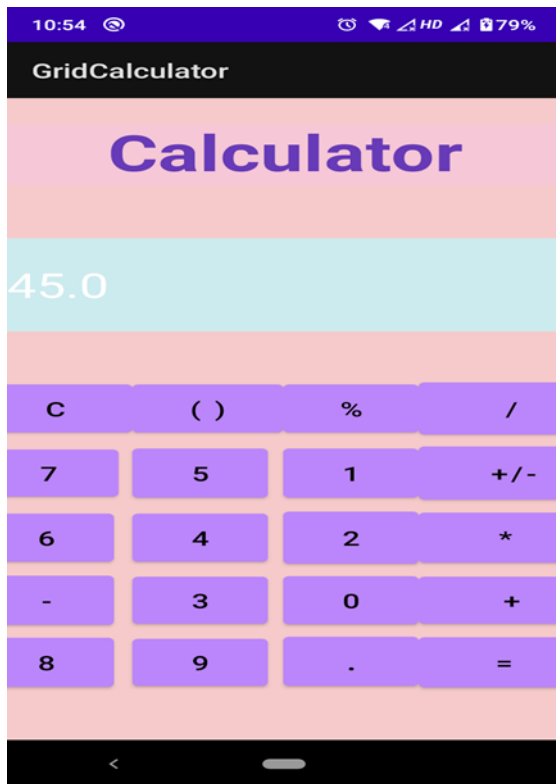
	<pre> android:layout_height="60dp" android:layout_row="2" android:layout_column="0" android:text="6" android:textSize="20sp" app:layout_column="2" app:layout_row="2" /&gt; &lt;Button android:id="@+id/button17" android:layout_width="wrap_content" android:layout_height="61dp" android:layout_row="3" android:layout_column="0" android:text="-" android:textSize="20sp" app:layout_column="3" app:layout_row="2" /&gt; &lt;Button android:id="@+id/button18" android:layout_width="wrap_content" android:layout_height="59dp" android:text="3" android:textSize="20sp" app:layout_column="2" app:layout_row="3" /&gt; &lt;Button android:id="@+id/button19" android:layout_width="wrap_content" android:layout_height="61dp" android:layout_row="4" android:layout_column="2" android:text="." android:textSize="24sp" app:layout_column="2" app:layout_row="4" /&gt; &lt;Button android:id="@+id/button20" android:layout_width="121dp" android:layout_height="59dp" android:layout_row="3" android:layout_column="3" android:text="+" android:textSize="20sp" app:layout_column="3" app:layout_row="3" /&gt; &lt;Button android:id="@+id/button21" android:layout_width="111dp" android:layout_height="62dp" android:layout_row="4" android:layout_column="3" android:text="=" </pre>
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	<pre> android:textSize="20sp" app:layout_column="3" app:layout_row="4" /&gt; &lt;/android.widget.GridLayout&gt; &lt;EditText android:id="@+id/edt1" android:layout_width="423dp" android:layout_height="93dp" android:layout_marginTop="140dp" android:layout_marginBottom="95dp" android:background="#A3D4DA" android:backgroundTint="#CCEBEF" android:textSize="34sp" app:layout_constraintBottom_toTopOf="@+id/gridLayout" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.0" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="1.0" tools:ignore="MissingConstraints" /&gt; &lt;EditText android:id="@+id/editTextTextPersonName2" android:layout_width="406dp" android:layout_height="61dp" android:layout_marginStart="1dp" android:layout_marginTop="15dp" android:layout_marginBottom="42dp" android:background="#F6C7D7" android:ems="10" android:foregroundGravity="center" android:gravity="center" android:inputType="textPersonName" android:text="Calculator" android:textColor="#673AB7" android:textSize="50sp" android:textStyle="bold" app:layout_constraintBottom_toTopOf="@+id/edt1" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" android:layout_marginLeft="1dp" /&gt; &lt;/androidx.constraintlayout.widget.ConstraintLayout&gt; </pre>
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## OUTPUT





**RESULT:** The above program is successfully executed and obtained the output

## **PROGRAM 7**

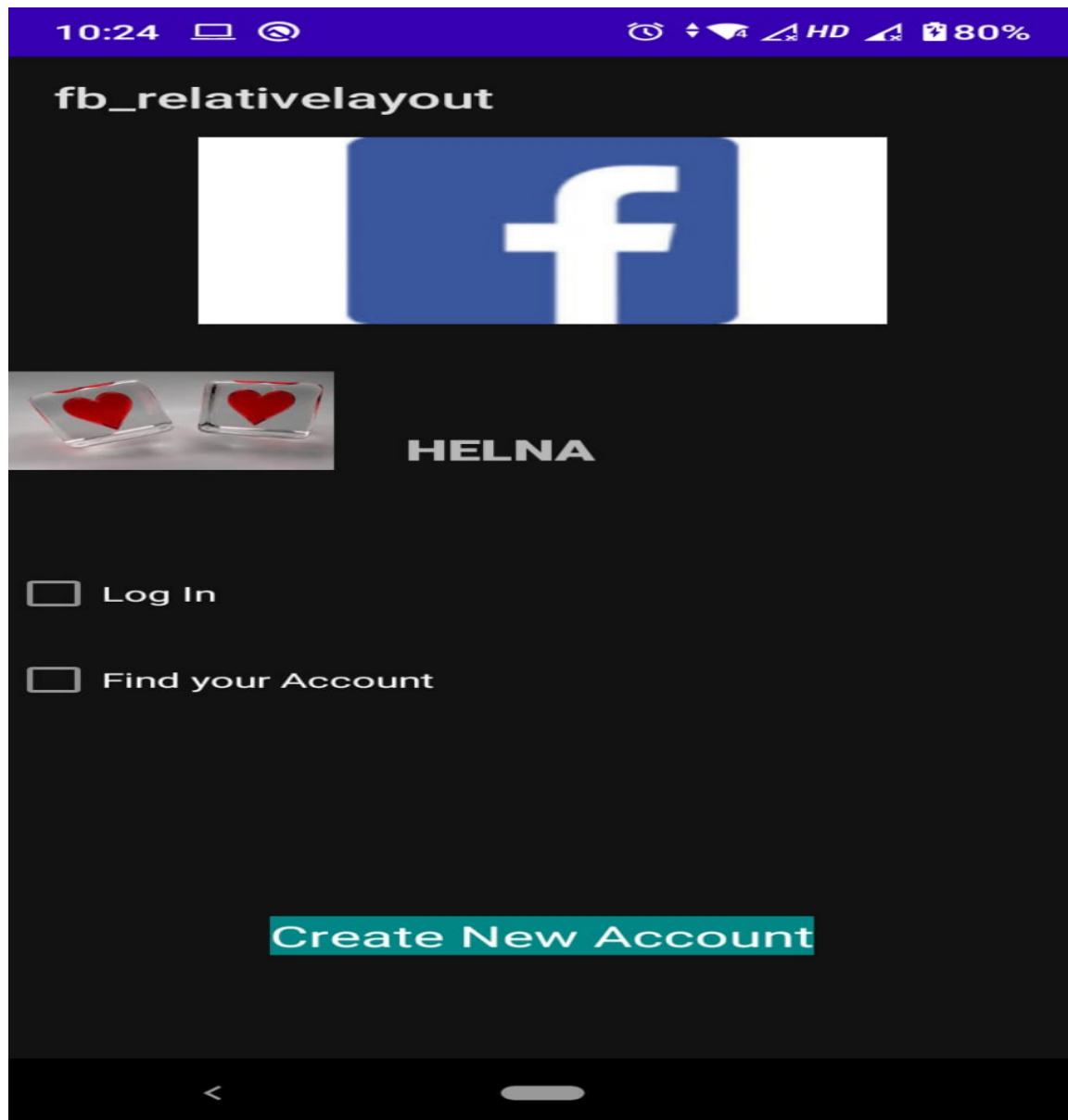
**AIM:** Create a Facebook page using RelativeLayout; set properties using .xml file

### **PROGRAM CODE**

XML CODE	<pre>&lt;?xml version="1.0" encoding="utf-8"?&gt; &lt;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"&gt; &lt;ImageView android:id="@+id/imageView3" android:layout_width="309dp" android:layout_height="130dp" android:layout_centerHorizontal="true" app:srcCompat="@drawable/fb_logo" /&gt; &lt;ImageView android:id="@+id/imageView7" android:layout_width="110dp" android:layout_height="wrap_content" android:layout_below="@+id/imageView3" android:layout_alignParentLeft="false" android:layout_marginTop="23dp" app:srcCompat="@drawable/emojii" /&gt; &lt;TextView android:id="@+id/editText1" android:layout_width="wrap_content" android:layout_height="wrap_content" android:layout_alignLeft="@id/imageView7" android:layout_alignBottom="@id/imageView7" android:layout_alignParentBottom="false" android:layout_marginLeft="134dp" android:layout_marginBottom="11dp" android:layout_toRightOf="@id/imageView7" android:ems="10" android:fontFamily="sans-serif-black" android:inputType="textPersonName" android:text="HELNA" android:textSize="20dp" /&gt;</pre>
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	<pre> &lt;CheckBox android:id="@+id/check1" android:layout_width="217dp" android:layout_height="26dp" android:layout_below="@id/imageView7" android:layout_marginTop="63dp" android:layout_marginBottom="56dp" android:text="Log In" /&gt; &lt;CheckBox android:layout_width="217dp" android:layout_height="26dp" android:layout_alignTop="@+id/check1" android:layout_marginTop="60dp" android:layout_marginBottom="56dp" android:text="Find your Account" /&gt; &lt;EditText android:layout_width="wrap_content" android:layout_height="wrap_content" android:layout_alignParentBottom="true" android:layout_centerInParent="true" android:layout_centerVertical="true" android:layout_marginBottom="72dp" android:background="@color/teal_700" android:text="Create New Account" android:textColor="@color/white" android:textSize="20dp" /&gt; &lt;/RelativeLayout&gt; </pre>
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## **OUTPUT**



**RESULT:** The above program is successfully executed and obtained the output

## **PROGRAM 8**

**AIM:** Develop an application that toggles image using FrameLayout

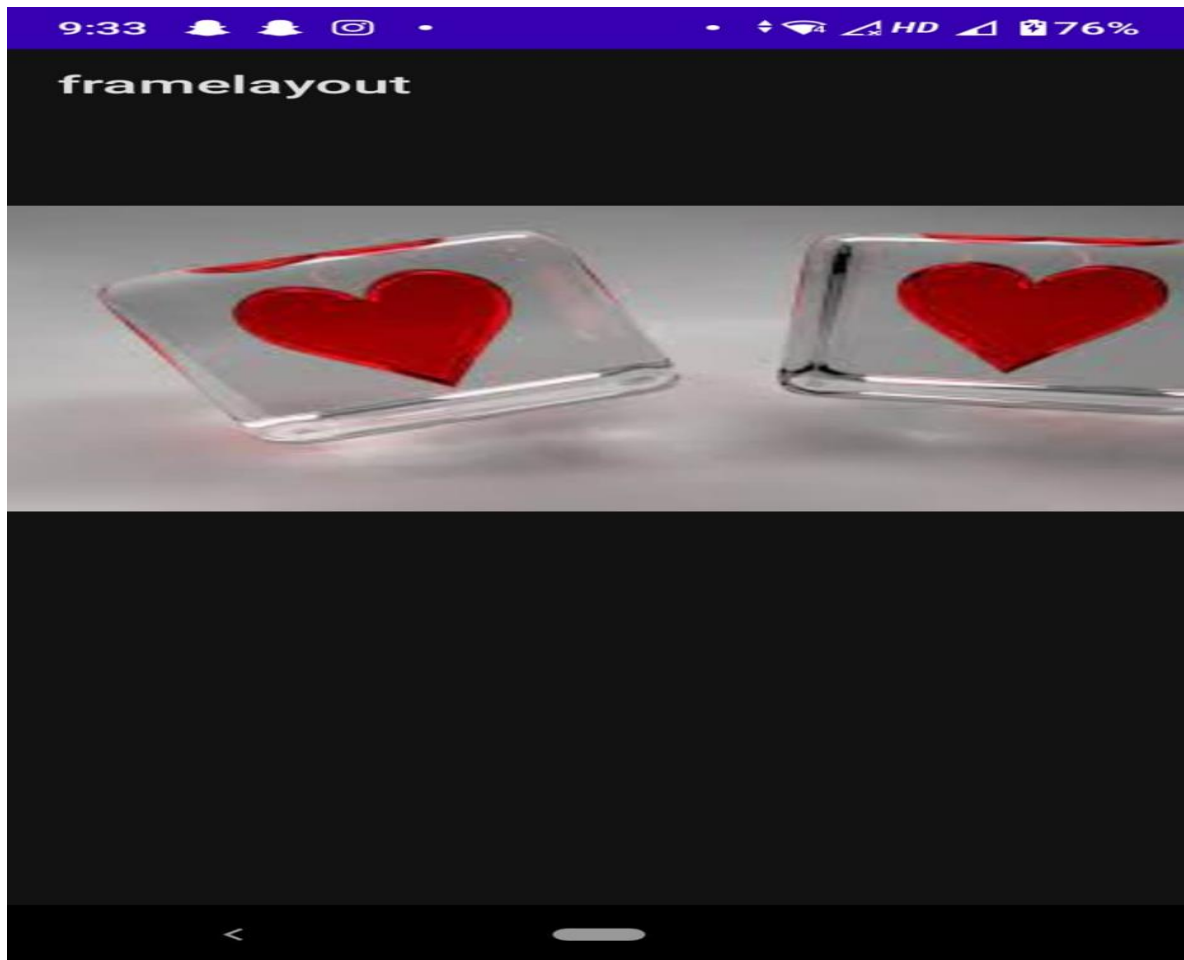
### **PROGRAM CODE**

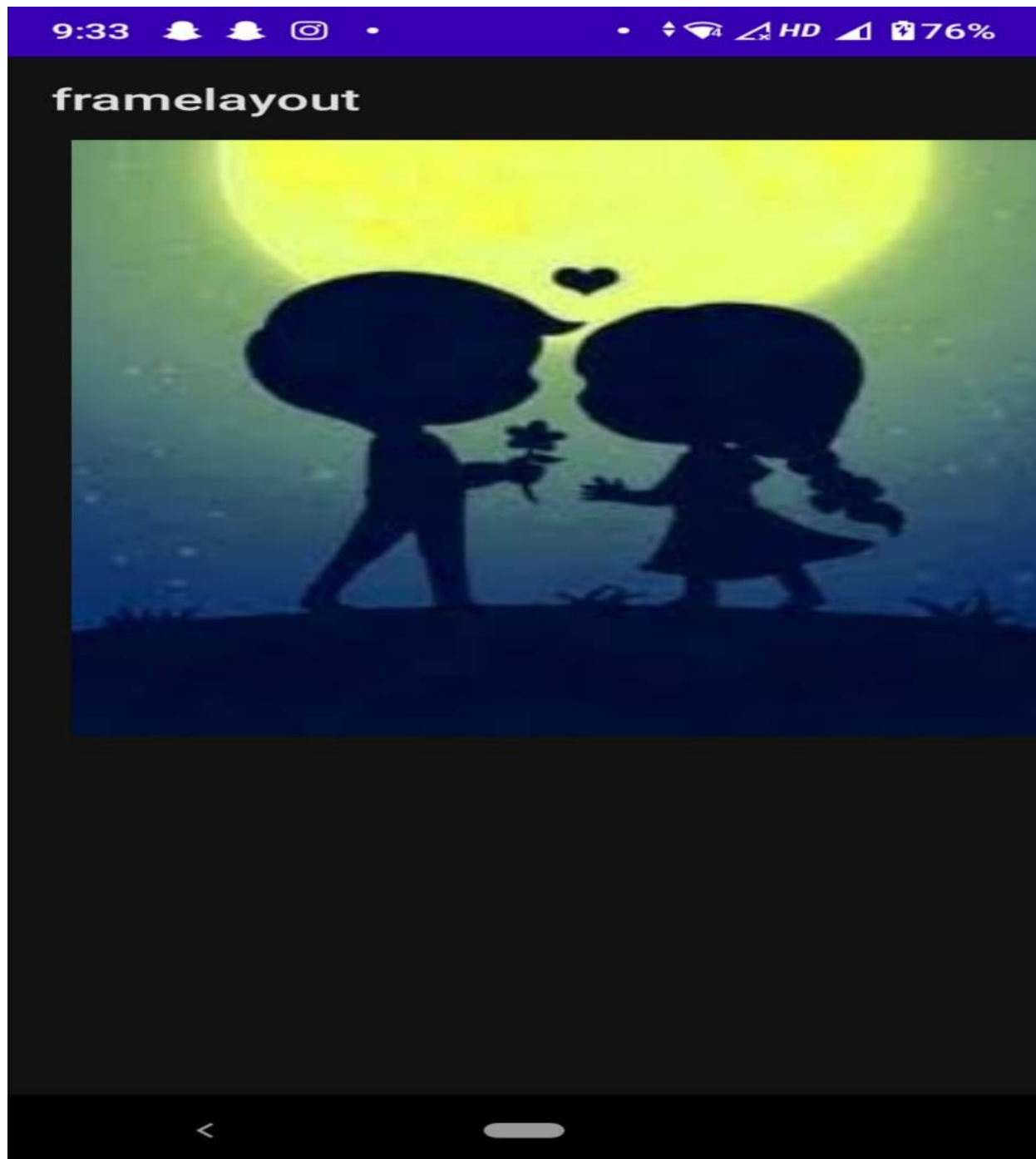
JAVA CODE	<pre>package com.example.frameLayout; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; import android.view.View; import android.widget.ImageView; public class MainActivity extends AppCompatActivity implements View.OnClickListener {     ImageView i1,i2;     @Override     protected void onCreate(Bundle savedInstanceState) {         super.onCreate(savedInstanceState);         setContentView(R.layout.activity_main);         i1=(ImageView) findViewById(R.id.imageView1);         i2=(ImageView) findViewById(R.id.imageView2);         i1.setOnClickListener(this);         i2.setOnClickListener(this);     }     @Override     public void onClick(View v) {         if(v.getId()==R.id.imageView1)         {             i1.setVisibility(v.GONE);             i2.setVisibility(v.VISIBLE);         }         else         {             i2.setVisibility(v.GONE);             i1.setVisibility(v.VISIBLE);         }     } }</pre>
XML CODE	<pre>&lt;?xml version="1.0" encoding="utf-8"?&gt; &lt;FrameLayout 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"</pre>

	<pre>android:layout_height="match_parent" tools:context=".MainActivity"&gt; &lt;ImageView android:id="@+id/imageView1" android:layout_width="400dp" android:layout_height="392dp" app:srcCompat="@drawable/emojii" android:layout_gravity="left top"/&gt; &lt;ImageView android:id="@+id/imageView2" android:layout_width="396dp" android:layout_height="400dp" app:srcCompat="@drawable/asd" android:layout_gravity="left top" android:visibility="gone"/&gt; &lt;FrameLayout android:layout_width="match_parent" android:layout_height="match_parent"&gt; &lt;/FrameLayout&gt; &lt;/FrameLayout&gt;</pre>
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## OUTPUT





**RESULT:** The above program is successfully executed and obtained the output