
COURSE OUTCOME-2

PROGRAM 1

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

PROGRAM CODE

MainActivity.java	<pre>package com.example.sharedpreference; import androidx.appcompat.app.AppCompatActivity; import android.content.SharedPreferences; import android.content.Intent; 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.Toast; public class MainActivity extends AppCompatActivity { EditText e1,e2,e3,e4,e5; Button b1; RadioButton r1,r2; RadioGroup r; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); e1=(EditText)findViewById(R.id.name); e2=(EditText)findViewById(R.id.address); e3=(EditText)findViewById(R.id.email); e4=(EditText)findViewById(R.id.password); e5=(EditText)findViewById(R.id.phno); b1=(Button)findViewById(R.id.validate1); r=(RadioGroup)findViewById(R.id.gender); r1=(RadioButton)findViewById(R.id.male); r2=(RadioButton)findViewById(R.id.female); b1.setOnClickListener(new View.OnClickListener(){ @Override</pre>
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	<pre> public void onClick(View v) { validate(); } }); } protected void onResume() { super.onResume(); SharedPreferences sh = getSharedPreferences("MySharedPref", MODE_PRIVATE); String s1 = sh.getString("name", "name"); String s2 = sh.getString("address", "address"); e1.setText(s1); e2.setText(s2); } protected void onPause() { super.onPause(); SharedPreferences sharedPreferences = getSharedPreferences("MySharedPref", MODE_PRIVATE); SharedPreferences.Editor myEdit = sharedPreferences.edit(); myEdit.putString("name", e1.getText().toString()); myEdit.putString("address",e2.getText().toString()); myEdit.apply(); } public void validate() { String name=e1.getText().toString(); String email=e3.getText().toString().trim(); String address=e2.getText().toString(); String password=e4.getText().toString(); String namePattern="[0-9!@#\$\$%^&*]"; String emailPattern="[a-zA-Z0-9._-]+@[a-z]+\.[a-z]+"; String pno=e5.getText().toString(); int valid=1; if(name.length()==0) { e1.getText().clear(); e1.requestFocus(); e1.setError("Enter name "); </pre>
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	<pre> Toast.makeText(getApplicationContext(), "Enter valid name", Toast.LENGTH_SHORT).show(); valid++; } if(name.matches(".*[0-9].*")) { e1.getText().clear(); e1.requestFocus(); e1.setError("Name contains illegal characters"); Toast.makeText(getApplicationContext(), "Enter valid name", Toast.LENGTH_SHORT).show(); valid++; } if(address.length()==0) { e2.getText().clear(); e2.requestFocus(); e2.setError("Enter address"); Toast.makeText(getApplicationContext(), "Enter valid address", Toast.LENGTH_SHORT).show(); valid++; } if(email.length()==0) { e3.getText().clear(); e3.requestFocus(); e3.setError("Enter email address"); Toast.makeText(getApplicationContext(), "Enter valid email", Toast.LENGTH_SHORT).show(); valid++; } if(!email.matches(emailPattern)) { e3.getText().clear(); e3.requestFocus(); e3.setError("Invalid email address"); Toast.makeText(getApplicationContext(), "Enter valid email ", Toast.LENGTH_SHORT).show(); valid++; } if(password.length()==0) { e4.requestFocus(); e4.setError("Enter password"); valid++; } </pre>
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	<pre> if(password.length()<5) { e4.requestFocus(); e4.setError("Enter an 8 digit password"); valid++; } if(!password.equals("password")) { Toast.makeText(getApplicationContext(), "Incorrect password", Toast.LENGTH_SHORT).show(); } if (r.getCheckedRadioButtonId() == -1) { Toast.makeText(getApplicationContext(), "Please select any gender", Toast.LENGTH_SHORT).show(); valid++; } else { if(r1.isChecked()) { Toast.makeText(getApplicationContext(), "Welcome Mr."+name, Toast.LENGTH_SHORT).show(); } if(r2.isChecked()) { Toast.makeText(getApplicationContext(), "Welcome Ms."+name, Toast.LENGTH_SHORT).show(); } } if(pno.length()<10) { e5.setError("Phone number should be of atleast 10 digits"); valid++; } if(valid==1) { Toast.makeText(getApplicationContext(), "VALIDATION SUCESSFULL", Toast.LENGTH_SHORT).show(); Intent i = new Intent(getApplicationContext(), MainActivity2.class); i.putExtra("1", name); i.putExtra("2", email); i.putExtra("3", address); </pre>
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	<pre> startActivity(i); } } </pre>
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activity_main.xml	<pre> <?xml version="1.0" encoding="utf-8"?> <LinearLayout 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="#00BCD4" android:orientation="vertical" tools:context=".MainActivity"> <EditText android:id="@+id/name" android:layout_width="match_parent" android:layout_height="wrap_content" android:backgroundTint="#00BCD4" android:ems="10" android:hint="Name" android:inputType="textPersonName" /> <EditText android:id="@+id/address" android:layout_width="match_parent" android:layout_height="wrap_content" android:backgroundTint="#00BCD4" android:ems="10" android:hint="Address" android:inputType="textPersonName" android:minHeight="48dp" /> <EditText android:id="@+id/email" android:layout_width="match_parent" android:layout_height="wrap_content" </pre>
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	<pre> android:backgroundTint="#00BCD4" android:ems="10" android:hint="Email" android:inputType="textEmailAddress" /> <EditText android:id="@+id/password" android:layout_width="match_parent" android:layout_height="wrap_content" android:backgroundTint="#00BCD4" android:ems="10" android:hint="Password" android:inputType="textPassword" /> <EditText android:id="@+id/phno" android:layout_width="match_parent" android:layout_height="wrap_content" android:backgroundTint="#00BCD4" android:ems="10" android:hint="Phone" android:inputType="phone" /> <TextView android:id="@+id/textView" android:layout_width="match_parent" android:layout_height="35dp" android:backgroundTint="#00BCD4" android:text="Gender" android:textAppearance="@style/TextAppearance.AppCompat.Body2" android:textSize="16sp" /> <RadioGroup android:id="@+id/gender" android:layout_width="match_parent" android:layout_height="99dp"> <RadioButton android:id="@+id/male" android:layout_width="match_parent" android:layout_height="wrap_content" android:backgroundTint="#00BCD4" android:text="Male" /> </pre>
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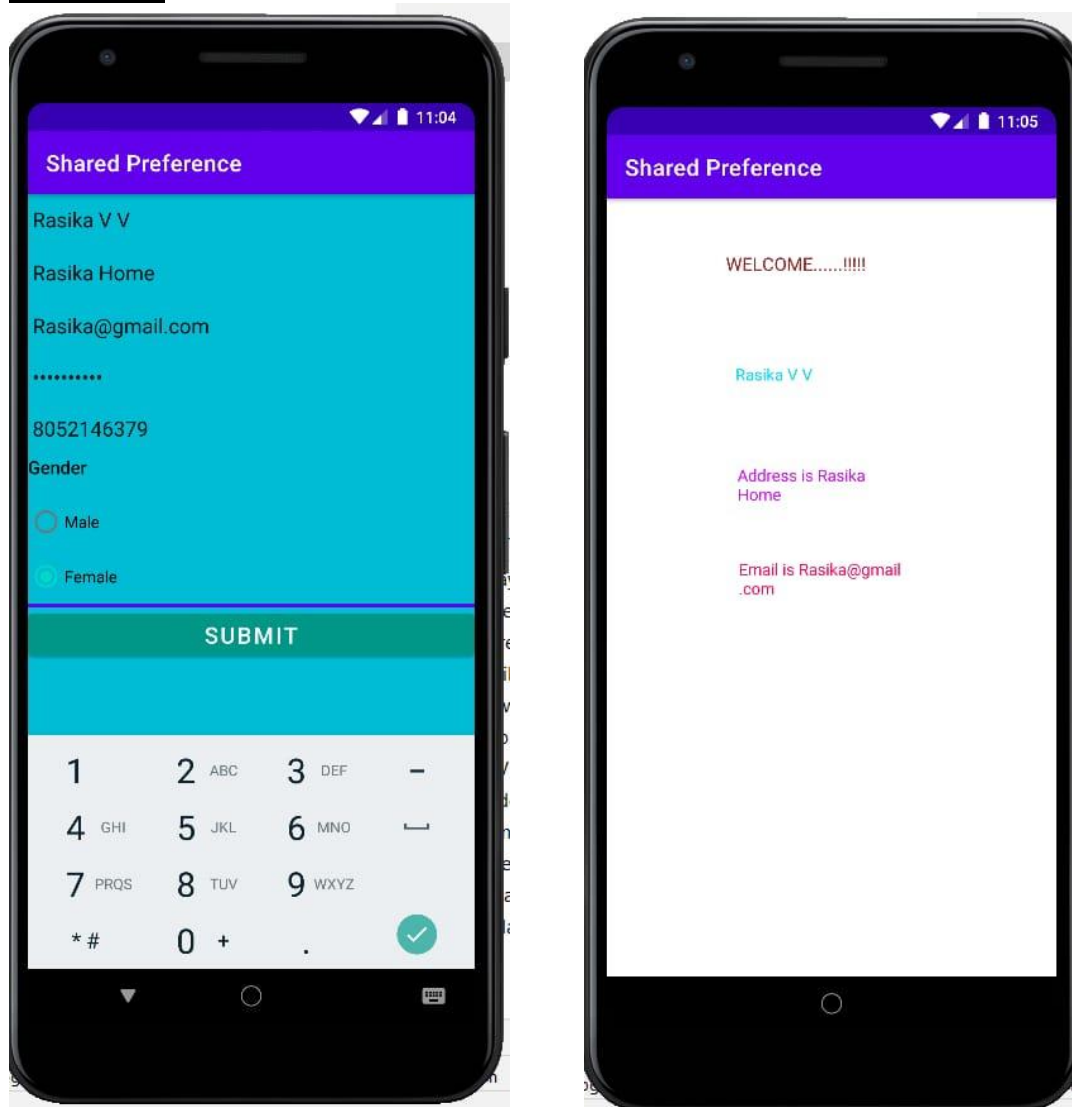
	<pre> <RadioButton android:id="@+id/female" android:layout_width="match_parent" android:layout_height="wrap_content" android:backgroundTint="#00BCD4" android:text="Female" /> <Button android:id="@+id/validate" android:layout_width="match_parent" android:layout_height="wrap_content" android:text="SUBMIT" /> </RadioGroup> <Button android:id="@+id/validate1" android:layout_width="match_parent" android:layout_height="wrap_content" android:backgroundTint="#009688" android:text="SUBMIT" android:textSize="20sp" /> </LinearLayout> </pre>
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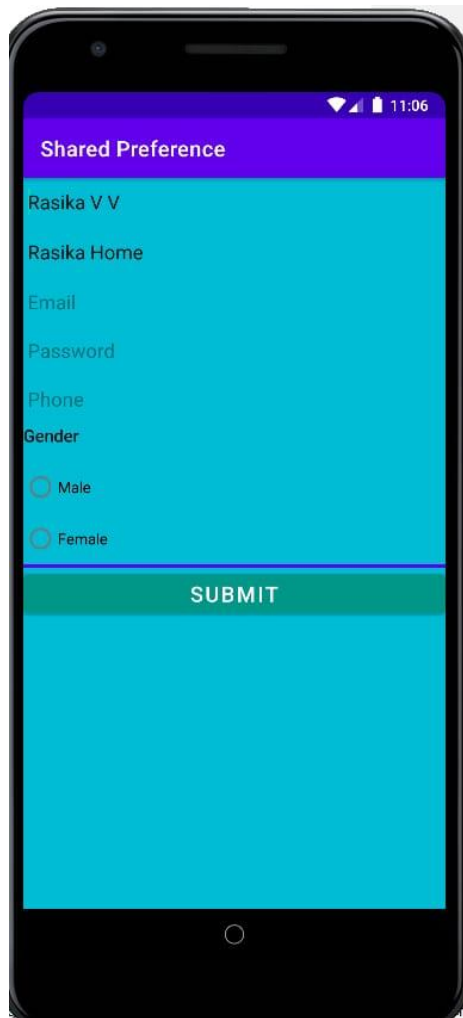
MainActivity2.java	<pre> package com.example.sharedpreference; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; import android.content.Intent; import android.widget.TextView; import android.view.View; import android.widget.Toast; public class MainActivity2 extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { TextView t1,t2,t3; super.onCreate(savedInstanceState); setContentView(R.layout.activity_main2); Bundle extras = getIntent().getExtras(); t1=(TextView) findViewById(R.id.textView3); </pre>
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	<pre> t2=(TextView) findViewById(R.id.textView4); t3=(TextView) findViewById(R.id.textView5); String value1 = extras.getString("1"); String value2 = extras.getString("2"); String value3 = extras.getString("3"); t1.setText(value1); t2.setText("Address is "+ value3); t3.setText("Email is "+ value2); } public void callFirstActivity(View view){ Intent i = new Intent(getApplicationContext(), MainActivity.class); startActivity(i); } } </pre>
activity_main2.xml	<pre> <?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=".MainActivity2"> <TextView android:id="@+id/textView2" android:layout_width="165dp" android:layout_height="44dp" android:layout_marginStart="8dp" android:layout_marginTop="8dp" android:layout_marginEnd="8dp" android:text="WELCOME.....!!!!!" android:textColor="#8F2525" android:textSize="16sp" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.454" app:layout_constraintLeft_toLeftOf="parent" app:layout_constraintRight_toRightOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.06" /> <TextView android:id="@+id/textView3" </pre>

	<pre> android:layout_width="149dp" android:layout_height="52dp" android:backgroundTint="#AA5C77" android:text="TextView" android:textColor="#06D8F3" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.461" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.229" /> <TextView android:id="@+id/textView4" android:layout_width="147dp" android:layout_height="52dp" android:text="TextView" android:textColor="#D310F4" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.465" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.369" /> <TextView android:id="@+id/textView5" android:layout_width="146dp" android:layout_height="50dp" android:text="TextView" android:textColor="#F80D5D" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.467" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.499" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
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OUTPUT





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

PROGRAM 2

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

PROGRAM CODE

MainActivity.java	<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);</pre>
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	<pre> buttonEqual = (Button) findViewById(R.id.button21); cEditText = (EditText) findViewById(R.id.edt1); button1.setOnClickListener(new View.OnClickListener() { @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() { </pre>
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	<pre> @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"); } }); 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; </pre>
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	<pre> 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 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 + ""); } } }); </pre>
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	<pre> 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>
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activity_main.xml	<pre> <?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" android:background="#F6CACA" tools:context=".MainActivity"> <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" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toBottomOf="@+id/edt1"> <Button android:id="@+id/button2" android:layout_width="100dp" android:layout_height="60dp" android:text="C" android:textSize="20sp" </pre>
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	<pre> app:layout_column="0" app:layout_row="0" /> <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" /> <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" /> <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" /> <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" app:layout_row="1" /> <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" </pre>
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	<pre> android:textSize="20sp" app:layout_column="0" app:layout_row="2" /> <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" /> <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" /> <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" /> <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" android:textSize="20sp" app:layout_column="2" app:layout_row="1" /> <Button android:id="@+id/button12" android:layout_width="113dp" android:layout_height="62dp" </pre>
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	<pre> android:layout_row="2" android:layout_column="3" android:text="*" android:textSize="20sp" app:layout_column="3" app:layout_row="1" /> <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" /> <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" /> <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" /> <Button android:id="@+id/button16" android:layout_width="wrap_content" android:layout_height="60dp" android:layout_row="2" android:layout_column="0" android:text="6" android:textSize="20sp" app:layout_column="2" </pre>
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	<pre> app:layout_row="2" /> <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" /> <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" /> <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" /> <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" /> <Button android:id="@+id/button21" android:layout_width="111dp" android:layout_height="62dp" android:layout_row="4" android:layout_column="3" </pre>
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	<pre> android:text="" android:textSize="20sp" app:layout_column="3" app:layout_row="4" /> </android.widget.GridLayout> <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" /> <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" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
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OUTPUT



$$9*6=54.0$$

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

PROGRAM 3

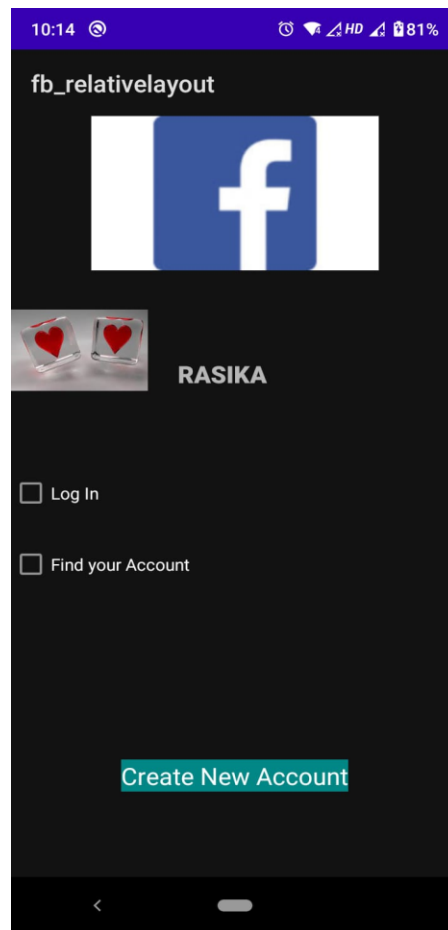
AIM: Create a Facebook page using RelativeLayout; set properties using .xml file.

PROGRAM CODE

activity_main.xml	<pre><?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:id="@+id/imageView3" android:layout_width="309dp" android:layout_height="130dp" android:layout_centerHorizontal="true" app:srcCompat="@drawable/fb_logo" /> <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" /> <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"</pre>
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	<pre> android:fontFamily="sans-serif-black" android:inputType="textPersonName" android:text="RASIKA" android:textSize="20dp" /> <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" /> <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" /> <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" /> </RelativeLayout></pre>
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OUTPUT



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

PROGRAM 4

AIM: Develop an application that toggles image using FrameLayout.

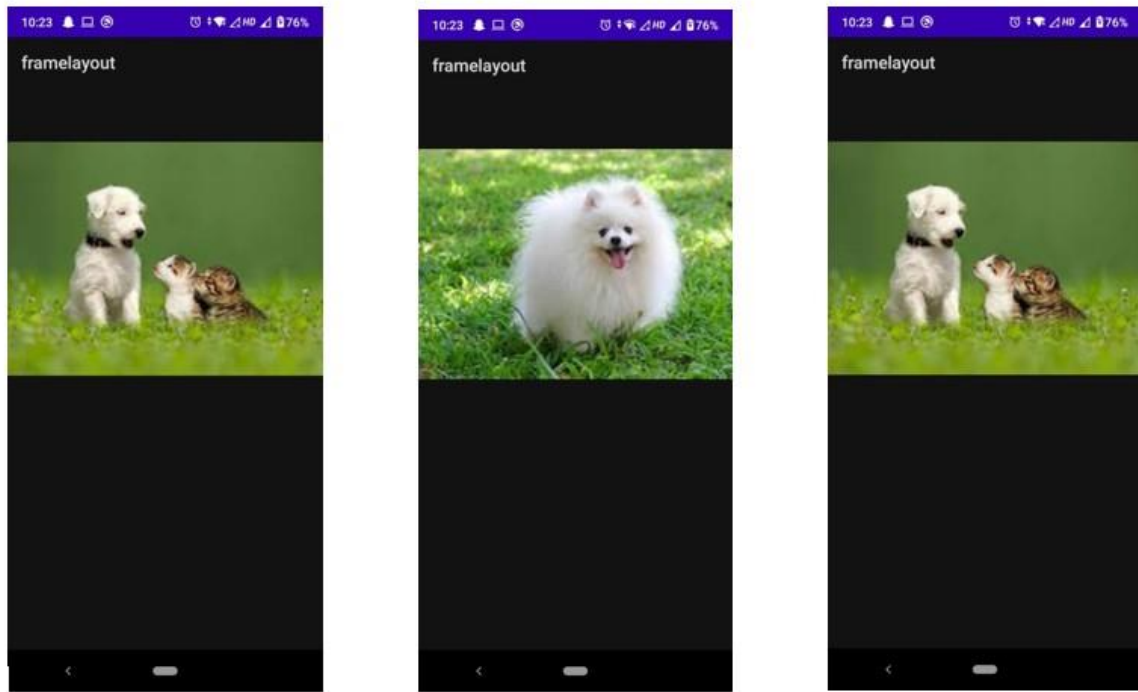
PROGRAM CODE:

Main_Activity.java	<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>
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	}
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activity_main.xml 1	<pre> <?xml version="1.0" encoding="utf-8"?> <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" android:layout_height="match_parent" tools:context=".MainActivity"> <ImageView android:id="@+id/imageView1" android:layout_width="400dp" android:layout_height="392dp" app:srcCompat="@drawable/emojii" android:layout_gravity="left top"/> <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"/> <FrameLayout android:layout_width="match_parent" android:layout_height="match_parent"> </FrameLayout> </FrameLayout> </pre>
------------------------	---

OUTPUT



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