
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

JAVA CODE MainActivity.java	<pre>package com.example.admin.sharedpreference; import android.support.v7.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);</pre>
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	<pre> t9=(TextView) findViewById(R.id.textView9); t10=(TextView) findViewById(R.id.textView10); bt.setOnClickListener(new View.OnClickListener() { @Override 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>
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XML CODE Activity_main.xml 1	<pre> <?xml version="1.0" encoding="utf-8"?> <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" </pre>
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	<pre> tools:context=".MainActivity"> <EditText android:id="@+id/editcheck" android:layout_width="148dp" android:layout_height="43dp" android:layout_marginTop="8dp" android:layout_marginBottom="8dp" 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" </pre>
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	<pre> 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" 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" </pre>
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	<pre> 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:text="Mob no" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.212" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.289" /> <EditText android:id="@+id/editText2" android:layout_width="136dp" android:layout_height="41dp" android:layout_marginStart="8dp" android:layout_marginTop="8dp" android:layout_marginEnd="8dp" android:layout_marginBottom="8dp" android:ems="10" android:inputType="textPersonName" android:hint="Enter Mob no" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.827" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" </pre>
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	<pre> app:layout_constraintVertical_bias="0.297" /> <TextView android:id="@+id/textView4" android:layout_width="66dp" android:layout_height="25dp" android:layout_marginStart="8dp" android:layout_marginTop="8dp" android:layout_marginEnd="8dp" android:layout_marginBottom="8dp" android:text="Email" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.208" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.391" /> <EditText android:id="@+id/editText3" android:layout_width="126dp" android:layout_height="37dp" android:layout_marginStart="8dp" android:layout_marginTop="8dp" android:layout_marginEnd="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" </pre>
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	<pre> app:layout_constraintBottom_toBottomOf="parent" 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" </pre>
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	<pre> 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" 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> </pre>
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OUTPUT

1:09

sharedpreference

Name

Age

Mob no

Email

Password

SAVE

riya

22

7559039424

riya@gmail.com

Riya@123

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

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);</pre>
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	<pre>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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@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() +
        "");
}
});

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        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
    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) {

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	<pre> 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>
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XML CODE	<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" </pre>
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	<pre> android:layout_height="60dp" android:text="C" android:textSize="20sp" 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" </pre>
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	<pre> 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" /> <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" </pre>
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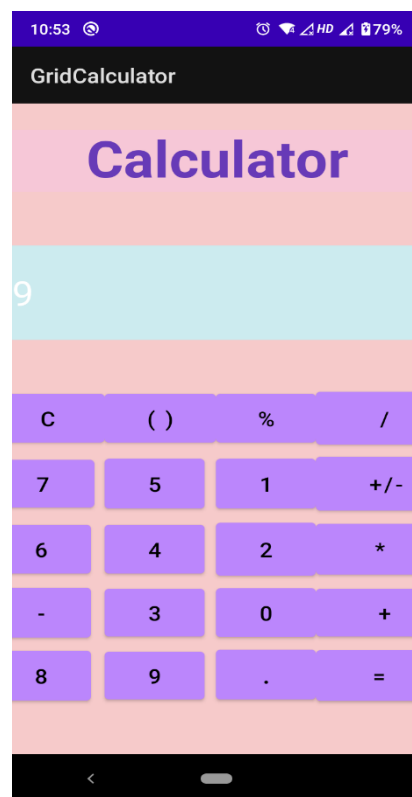
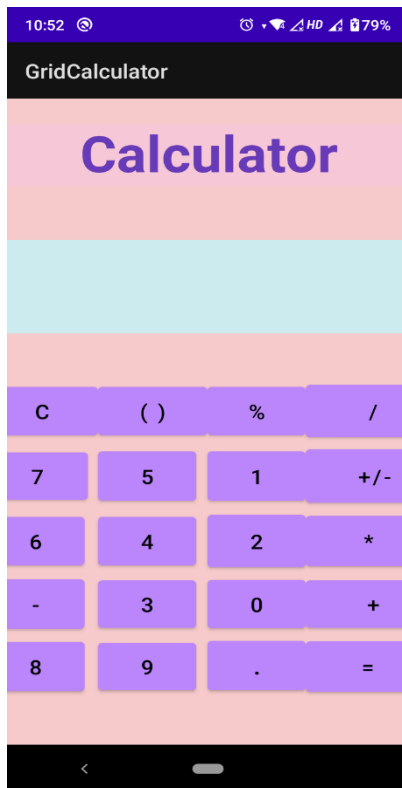
	<pre> app:layout_row="1" /> <Button android:id="@+id/button12" android:layout_width="113dp" android:layout_height="62dp" android:layout_row="2" android:layout_column="3" android:text="*" android:textSize="20sp" app:layout_column="3" app:layout_row="1" /> <Button android:id="@+id/button13" android:layout_width="wrap_content" 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" </pre>
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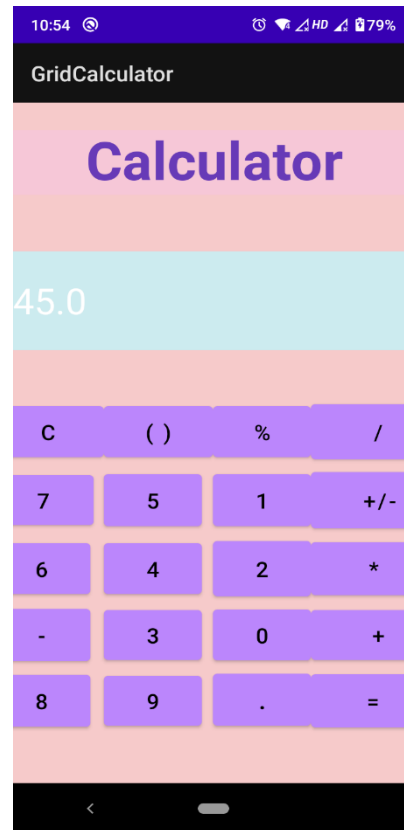
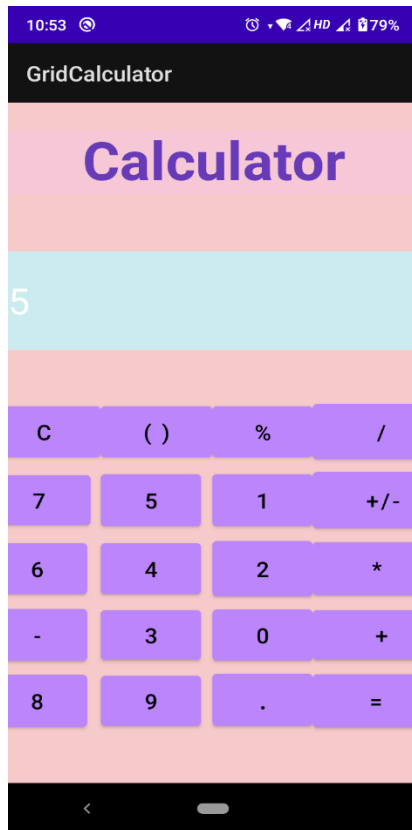
	<pre> android:layout_height="60dp" android:layout_row="2" android:layout_column="0" android:text="6" android:textSize="20sp" app:layout_column="2" app:layout_row="2" /> <Button android:id="@+id/button17" android:layout_width="wrap_content" android:layout_height="61dp" android:layout_row="3" android:layout_column="0" 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" </pre>
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	<pre> 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" 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" </pre>
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	<pre>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





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

PROGRAM 3

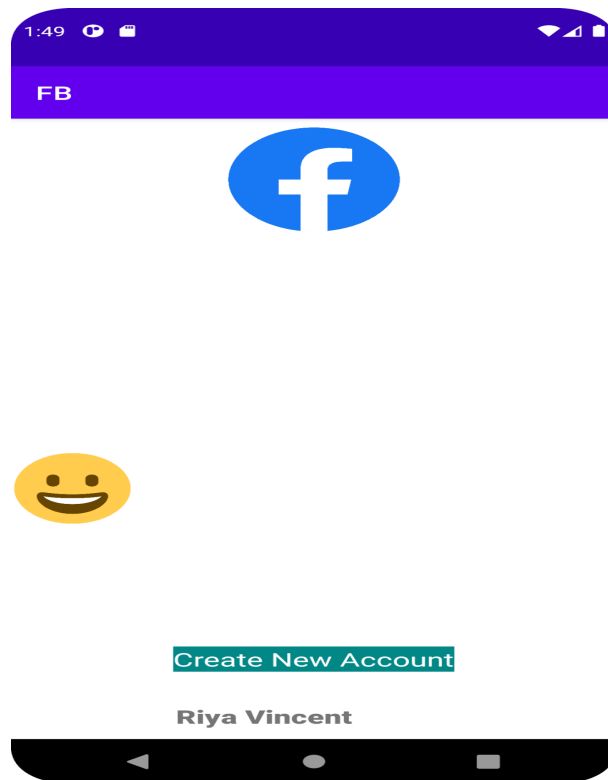
AIM: Create a Facebook page using RelativeLayout; set properties using .xml file.

PROGRAM CODE

XML CODE	<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/flower" /> <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="Shaina" 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 to another account" /> <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 Facebook 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

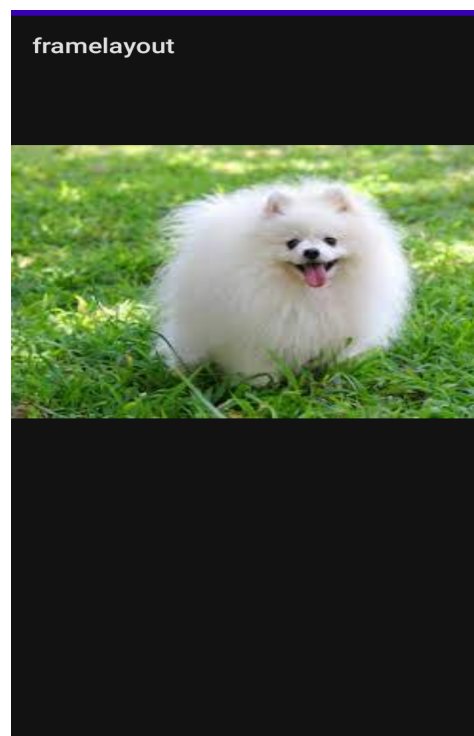
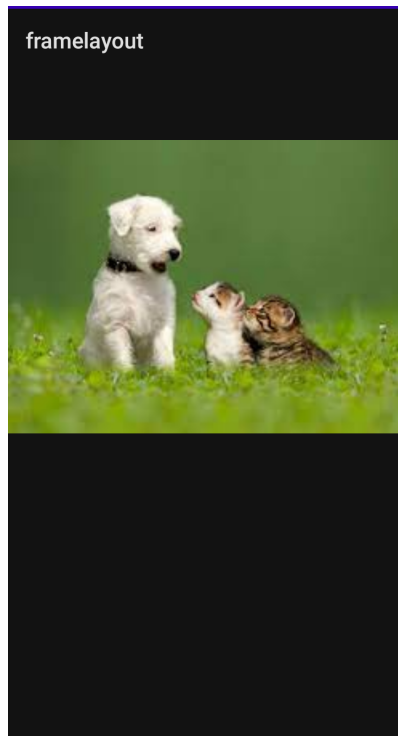
AIM: Develop an application that toggles image using FrameLayout.

PROGRAM CODE:

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>
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XML CODE	<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/puppy" android:layout_gravity="left top"/> <ImageView android:id="@+id/imageView2" android:layout_width="396dp" android:layout_height="400dp" app:srcCompat="@drawable/puppy" android:layout_gravity="left top" android:visibility="gone"/> <FrameLayout android:layout_width="match_parent" android:layout_height="match_parent"> </FrameLayout> </FrameLayout></pre>
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OUTPUT



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