

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

```
package com.example.co2_q1;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;

public class MainActivity extends AppCompatActivity {
    String Name;
    String Address;
    String Phone;
    String Email;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
    public void onSubmit(View view){
        EditText name = (EditText) findViewById(R.id.name);
        EditText add = (EditText) findViewById(R.id.add);
        EditText phone = (EditText) findViewById(R.id.phone);
        EditText email = (EditText) findViewById(R.id.email);
        Intent i = new
Intent(getApplicationContext(),MainActivity2.class);
        Name= name.getText().toString();
        Address = add.getText().toString();
        Phone = phone.getText().toString();
        Email = email.getText().toString();
        SharedPreferences sharedPreferences =
getSharedPreferences("MySharedPref",MODE_PRIVATE);
        SharedPreferences.Editor myEdit =
sharedPreferences.edit();
        myEdit.putString("name", name.getText().toString());
        myEdit.putString("add", add.getText().toString());
        myEdit.putString("phone", phone.getText().toString());
```

	<pre> myEdit.putString("email", email.getText().toString()); myEdit.apply(); i.putExtra("Name",Name); i.putExtra("Address",Address); i.putExtra("Phone",Phone); i.putExtra("Email",Email); startActivity(i); } @Override protected void onResume() { super.onResume(); EditText name = (EditText) findViewById(R.id.name); EditText add = (EditText) findViewById(R.id.add); EditText phone = (EditText) findViewById(R.id.phone); EditText email = (EditText) findViewById(R.id.email); SharedPreferences sh = getSharedPreferences("MySharedPref", MODE_PRIVATE); name.setText(sh.getString("name","")); add.setText(sh.getString("add","")); phone.setText(sh.getString("phone","")); email.setText(sh.getString("email","")); } } </pre>
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="#FFEB3B" tools:context=".MainActivity"> <EditText android:id="@+id/add" android:layout_width="wrap_content" android:layout_height="wrap_content" android:ems="10" android:hint="Address" android:inputType="textPostalAddress" 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="0.412" /> </pre>

```
<EditText
    android:id="@+id/email"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="Email"
    android:inputType="textWebEmailAddress"
    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="0.661" />
```

```
<EditText
    android:id="@+id/phone"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:ems="10"
    android:hint="Phone"
    android:inputType="phone"
    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="0.529" />
```

```
<TextView
    android:id="@+id/t1"
    android:layout_width="132dp"
    android:layout_height="30dp"
    android:text="Name"
    android:textAlignment="center"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.093"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.313" />
```

```
<TextView
    android:id="@+id/t4"
    android:layout_width="132dp"
    android:layout_height="30dp"
    android:text="Email"
    android:textAlignment="center"
    android:textStyle="bold"
```

```
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintHorizontal_bias="0.093"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.659" />
```

```
<TextView
    android:id="@+id/t2"
    android:layout_width="132dp"
    android:layout_height="30dp"
    android:text="Address"
    android:textAlignment="center"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.093"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.413" />
```

```
<TextView
    android:layout_width="230dp"
    android:layout_height="37dp"
    android:text="REGISTER"
    android:textAlignment="center"
    android:textSize="24sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintHorizontal_bias="0.497"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.023" />
```

```
<TextView
    android:id="@+id/t3"
    android:layout_width="132dp"
    android:layout_height="30dp"
    android:text="Phone"
    android:textAlignment="center"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.093"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.517" />
```

```
<EditText
```

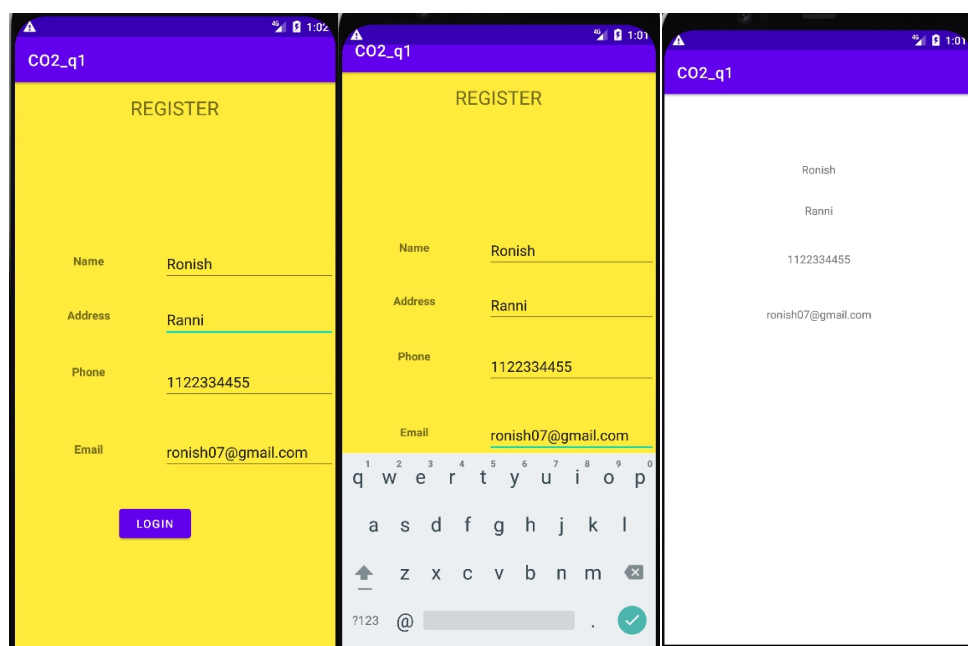
	<pre> android:id="@+id/name" android:layout_width="wrap_content" android:layout_height="wrap_content" android:ems="10" android:hint="Name" android:inputType="textPersonName" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="1.0" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.307" /> <Button android:id="@+id/button" android:layout_width="wrap_content" android:layout_height="wrap_content" android:layout_marginStart="144dp" android:layout_marginTop="51dp" android:layout_marginEnd="177dp" android:layout_marginBottom="133dp" android:onClick="onSubmit" android:text="Login" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="1.0" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toBottomOf="@+id/email" app:layout_constraintVertical_bias="1.0" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
MainActivity2.java	<pre> package com.example.co2_q1; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; import android.widget.TextView; public class MainActivity2 extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main2); TextView t1 = (TextView) findViewById(R.id.name2); TextView t2 = (TextView) findViewById(R.id.add2); TextView t3 = (TextView) findViewById(R.id.phone2); TextView t4 = (TextView) findViewById(R.id.email2); </pre>

	<pre> Bundle extras = getIntent().getExtras(); String name2 = extras.getString("Name"); String add2 = extras.getString("Address"); String phone2 = extras.getString("Phone"); String email2 = extras.getString("Email"); t1.setText(name2); t2.setText(add2); t3.setText(phone2); t4.setText(email2); } } </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/name2" android:layout_width="239dp" android:layout_height="26dp" android:text="TextView" android:textAlignment="center" 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="0.128" /> <TextView android:id="@+id/email2" android:layout_width="239dp" android:layout_height="26dp" android:text="TextView" android:textAlignment="center" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.401" /> <TextView android:id="@+id/add2" android:layout_width="239dp" </pre>

	<pre> android:layout_height="26dp" android:text="TextView" android:textAlignment="center" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.205" /> <TextView android:id="@+id/phone2" android:layout_width="239dp" android:layout_height="26dp" android:text="TextView" android:textAlignment="center" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.297" /> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
--	---

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

OUTPUT :



PROGRAM : 2

AIM : Design a simple Calculator using GridLayout and Cascaded LinearLayout

PROGRAM CODE :

MainActivity.java	<pre>//Design a simple Calculator using GridLayout and Cascaded LinearLayout package com.example.co2_q2; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; import android.view.View; import android.widget.TextView; public class MainActivity extends AppCompatActivity { float mValueOne, mValueTwo; boolean cAddition, mSubtract, cMultiplication, cDivision,cperc; TextView op,rss; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); op = findViewById(R.id.opp); rss = findViewById(R.id.rs); } public void zero(View view){ op.setText(op.getText() + "0"); } public void one(View view){ op.setText(op.getText() + "1"); } public void two(View view){ op.setText(op.getText() + "2"); } public void three(View view){ op.setText(op.getText() + "3"); } public void four(View view){ op.setText(op.getText() + "4"); } }</pre>
-------------------	---

```

    }
    public void five(View view){
        op.setText(op.getText() + "5");
    }
    public void six(View view){
        op.setText(op.getText() + "6");
    }
    public void seven(View view){
        op.setText(op.getText() + "7");
    }
    public void eight(View view){
        op.setText(op.getText() + "8");
    }
    public void nine(View view){
        op.setText(op.getText() + "9");
    }
    public void add(View view){
        if (op == null) {
            op.setText("");
        } else {
            mValueOne = Float.parseFloat(op.getText() + "");
            cAddition = true;
            op.setText(null);
        }
    }
    public void sub(View view){
        if (op == null) {
            op.setText("");
        } else {
            mValueOne = Float.parseFloat(op.getText() + "");
            mSubtract = true;
            op.setText(null);
        }
    }
    public void mul(View view){
        if (op == null) {
            op.setText("");
        } else {
            mValueOne = Float.parseFloat(op.getText() + "");
            cMultiplication = true;
            op.setText(null);
        }
    }
    public void div(View view){
        if (op == null) {
            op.setText("");
        } else {

```

```

        mValueOne = Float.parseFloat(op.getText() + "");
        cDivision = true;
        op.setText(null);
    }
}

public void per(View view){
    if (op == null) {
        op.setText("");
    } else {
        mValueOne = Float.parseFloat(op.getText() + "");
        cperc = true;
        op.setText(null);
    }
}

public void equal(View view){
    if (op == null) {
        op.setText("");
    } else {
        mValueTwo = Float.parseFloat(op.getText() + "");

        if (cAddition == true) {
            op.setText(Float.toString(mValueOne)+" +
"+Float.toString(mValueTwo)+" = "+Float.toString(mValueOne
+ mValueTwo) + "");
        }

        else if (mSubtract == true) {
            op.setText(Float.toString(mValueOne)+" -
"+Float.toString(mValueTwo)+" = "+Float.toString(mValueOne
- mValueTwo) + "");
        }

        else if (cMultiplication == true) {
            op.setText(Float.toString(mValueOne)+" *
"+Float.toString(mValueTwo)+" = "+Float.toString(mValueOne
* mValueTwo )+ "");
        }

        else if (cDivision == true) {
            op.setText(Float.toString(mValueOne)+" /
"+Float.toString(mValueTwo)+" = "+Float.toString(mValueOne
/ mValueTwo )+ "");
        }
        else if (cperc == true) {
            op.setText(Float.toString(mValueOne)+" %
"+Float.toString(mValueTwo)+" = "+Float.toString(mValueOne
/ mValueTwo*100)+"%");
        }
    }
}

```

	<pre> } cAddition = false; mSubtract = false; cMultiplication = false; cDivision = false; cperc = false; mValueOne =0 ; mValueTwo=0; } } public void clear(View view){ cAddition = false; mSubtract = false; cMultiplication = false; cDivision = false; cperc = false; mValueOne =0 ; mValueTwo=0; op.setText(null); rss.setText(null); } } </pre>
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="#D3C54D" android:textAlignment="center" tools:context=".MainActivity"> <TextView android:id="@+id/rs" android:layout_width="194dp" android:layout_height="31dp" android:textAlignment="center" android:textAllCaps="true" android:textSize="24sp" android:textStyle="bold" app:layout_constraintBottom_toBottomOf="parent" app:layout_constraintHorizontal_bias="0.847" app:layout_constraintLeft_toLeftOf="parent" app:layout_constraintRight_toRightOf="parent" app:layout_constraintTop_toTopOf="parent" app:layout_constraintVertical_bias="0.098" /> </pre>

```
<TextView
    android:id="@+id/textView3"
    android:layout_width="281dp"
    android:layout_height="43dp"
    android:text="Calculator"
    android:textAlignment="center"
    android:textAllCaps="true"
    android:textSize="34sp"
    android:textStyle="bold"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintHorizontal_bias="0.562"
    app:layout_constraintLeft_toLeftOf="parent"
    app:layout_constraintRight_toRightOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.022" />
```

```
<TextView
    android:id="@+id/opp"
    android:layout_width="320dp"
    android:layout_height="32dp"
    android:textAlignment="textEnd"
    android:textAllCaps="true"
    android:textSize="20sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.637"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    app:layout_constraintVertical_bias="0.175" />
```

```
<androidx.gridlayout.widget.GridLayout
    android:layout_width="372dp"
    android:layout_height="510dp"
    android:layout_marginStart="2dp"
    android:layout_marginTop="16dp"
    android:layout_marginEnd="2dp"
    android:layout_marginBottom="17dp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/opp">
```

```
<Button
    android:id="@+id/ac"
    android:layout_width="126dp"
    android:layout_height="62dp"
    android:onClick="clear"
    android:text="AC"
```

```
app:layout_column="0"
app:layout_row="5"
tools:text="AC" />
```

```
<Button
    android:id="@+id/clear"
    android:layout_width="126dp"
    android:layout_height="62dp"
    android:onClick="clear"
    android:text="C"
    app:layout_column="2"
    app:layout_row="5"
    tools:text="C" />
```

```
<Button
    android:id="@+id/n9"
    android:layout_width="130dp"
    android:layout_height="90dp"
    android:onClick="nine"
    android:text="9"
    app:layout_column="0"
    app:layout_row="0" />
```

```
<Button
    android:id="@+id/equal"
    android:layout_width="126dp"
    android:layout_height="62dp"
    android:onClick="equal"
    android:text="="
    app:layout_column="1"
    app:layout_row="5" />
```

```
<Button
    android:id="@+id/per"
    android:layout_width="130dp"
    android:layout_height="90dp"
    android:onClick="per"
    android:text="%"
    app:layout_column="2"
    app:layout_row="4" />
```

```
<Button
    android:id="@+id/div"
    android:layout_width="130dp"
    android:layout_height="90dp"
    android:onClick="div"
    android:text="/"
    app:layout_column="1"
    app:layout_row="4" />
```

```
<Button
    android:id="@+id/sub"
    android:layout_width="130dp"
    android:layout_height="90dp"
    android:onClick="sub"
    android:text="-"
    app:layout_column="2"
    app:layout_row="3" />
```

```
<Button
    android:id="@+id/mul"
    android:layout_width="130dp"
    android:layout_height="90dp"
    android:onClick="mul"
    android:text="*"
    app:layout_column="0"
    app:layout_row="4" />
```

```
<Button
    android:id="@+id/sum"
    android:layout_width="130dp"
    android:layout_height="90dp"
    android:onClick="add"
    android:text="+"
    app:layout_column="1"
    app:layout_row="3" />
```

```
<Button
    android:id="@+id/n0"
    android:layout_width="130dp"
    android:layout_height="90dp"
    android:onClick="zero"
    android:text="0"
    app:layout_column="0"
    app:layout_row="3" />
```

```
<Button
    android:id="@+id/n1"
    android:layout_width="130dp"
    android:layout_height="90dp"
    android:onClick="one"
    android:text="1"
    app:layout_column="2"
    app:layout_row="2" />
```

```
<Button
    android:id="@+id/n2"
    android:layout_width="130dp"
```

```
android:layout_height="90dp"
android:onClick="two"
android:text="2"
app:layout_column="1"
app:layout_row="2" />
```

```
<Button
    android:id="@+id/n3"
    android:layout_width="130dp"
    android:layout_height="90dp"
    android:onClick="three"
    android:text="3"
    app:layout_column="0"
    app:layout_row="2" />
```

```
<Button
    android:id="@+id/n4"
    android:layout_width="130dp"
    android:layout_height="90dp"
    android:onClick="four"
    android:text="4"
    app:layout_column="2"
    app:layout_row="1" />
```

```
<Button
    android:id="@+id/n5"
    android:layout_width="130dp"
    android:layout_height="90dp"
    android:onClick="five"
    android:text="5"
    app:layout_column="1"
    app:layout_row="1" />
```

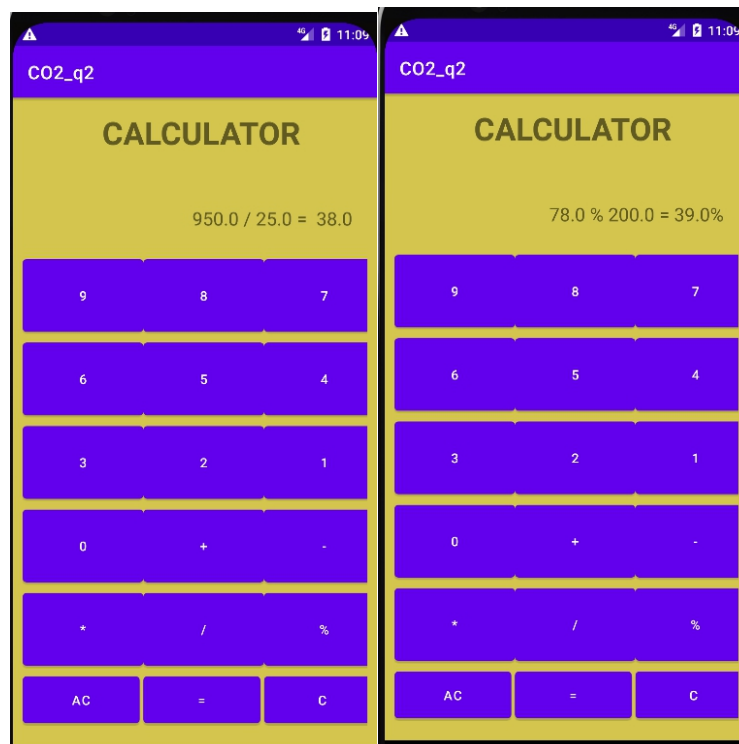
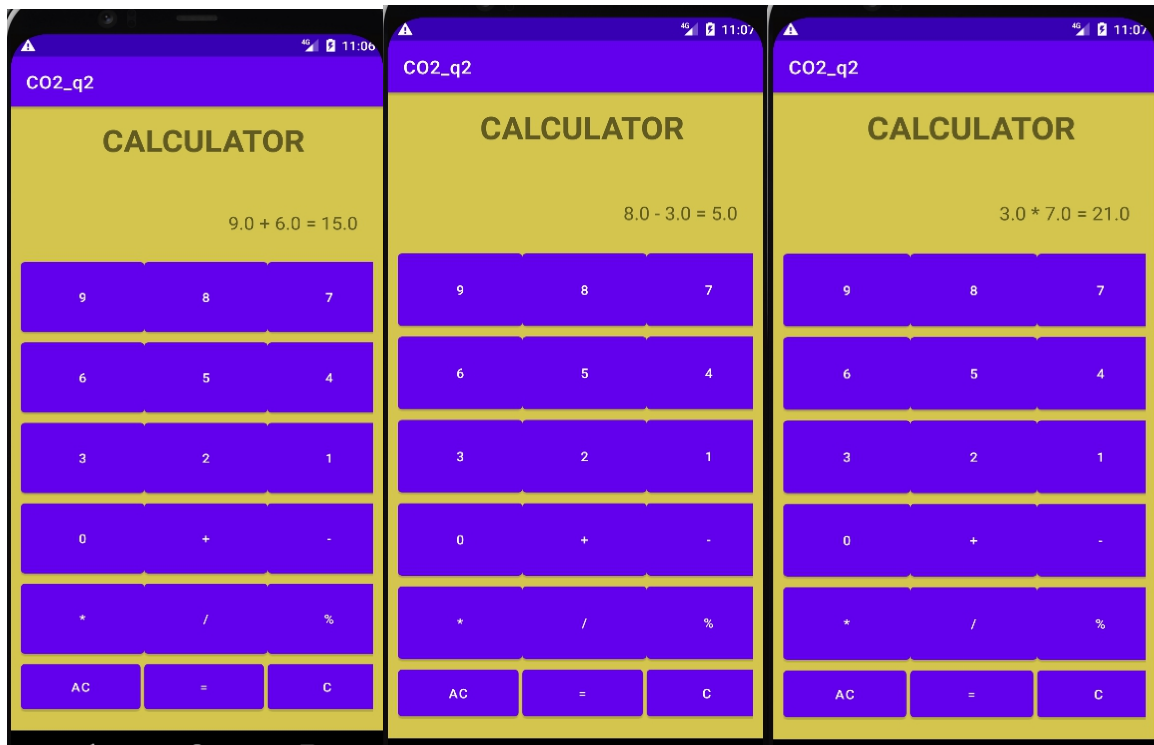
```
<Button
    android:id="@+id/n6"
    android:layout_width="130dp"
    android:layout_height="90dp"
    android:onClick="six"
    android:text="6"
    app:layout_column="0"
    app:layout_row="1" />
```

```
<Button
    android:id="@+id/n7"
    android:layout_width="130dp"
    android:layout_height="90dp"
    android:onClick="seven"
    android:text="7"
    app:layout_column="2"
```


	<pre>app:layout_row="0" /> <Button android:id="@+id/n8" android:layout_width="130dp" android:layout_height="90dp" android:onClick="eight" android:text="8" app:layout_column="1" app:layout_row="0" /> </androidx.gridlayout.widget.GridLayout> </androidx.constraintlayout.widget.ConstraintLayout></pre>
--	---

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

OUTPUT :



PROGRAM : 3

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

PROGRAM CODE :

MainActivity.java	<pre>/package com.example.co2_q3; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); } }</pre>
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:id="@+id/c1" android:layout_width="match_parent" android:layout_height="match_parent" tools:context=".MainActivity"> <CheckBox android:id="@+id/checkBox2" android:layout_width="220dp" android:layout_height="61dp" android:layout_alignBottom="@id/imageView2" android:layout_marginBottom="-174dp" android:text="Find Your Account" /> <ImageView android:id="@+id/imageView" android:layout_width="match_parent" android:layout_height="193dp" app:srcCompat="@drawable/fb" /></pre>

```
<ImageView
    android:id="@+id/imageView2"
    android:layout_width="195dp"
    android:layout_height="151dp"
    android:layout_alignBottom="@id/imageView"
    android:layout_marginBottom="-195dp"
    app:srcCompat="@drawable/dp" />

<CheckBox
    android:id="@+id/checkBox"
    android:layout_width="220dp"
    android:layout_height="61dp"
    android:layout_alignBottom="@id/imageView2"
    android:layout_marginBottom="-112dp"
    android:text="Login to Another Account" />

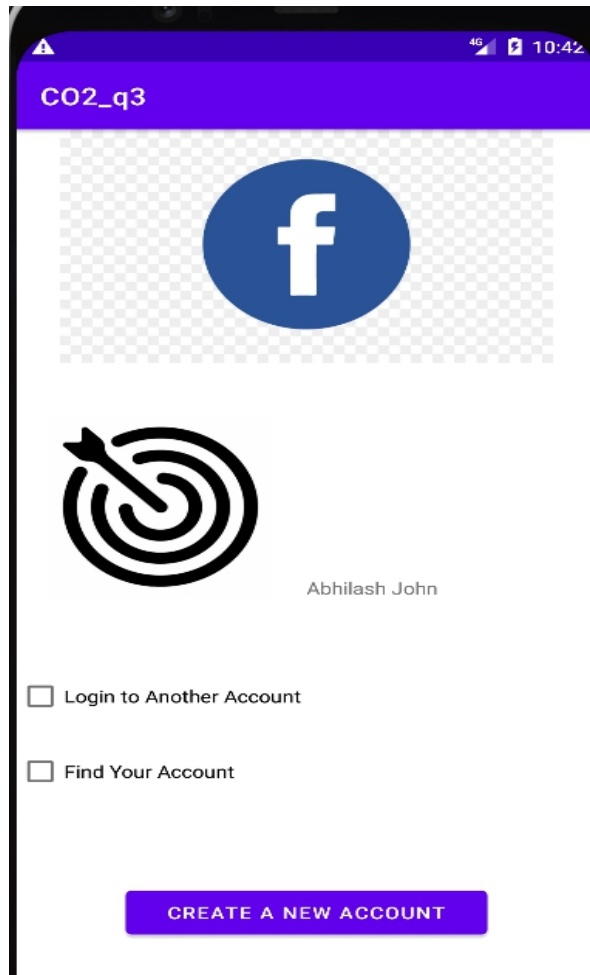
<Button
    android:id="@+id/button"
    android:layout_width="245dp"
    android:layout_height="wrap_content"
    android:layout_alignBottom="@id/imageView"
    android:layout_centerHorizontal="true"
    android:layout_marginBottom="-479dp"
    android:text="Create a new Account" />

<TextView
    android:id="@+id/textView4"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignRight="@id/imageView2"
    android:layout_alignBottom="@id/imageView"
    android:layout_marginRight="-91dp"
    android:layout_marginBottom="-196dp"
    android:text="Abhilash John" />
```

```
</RelativeLayout>
```

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

OUTPUT :



PROGRAM : 4

AIM : Develop an application that toggles image using FrameLayout

PROGRAM CODE :

MainActivity.java	<pre>//Develop an application that toggles image using FrameLayout. package com.example.co2_q4; import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle; import android.view.View; import android.widget.ImageView; public class MainActivity extends AppCompatActivity { @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity_main); final ImageView first_image = (ImageView)this.findViewById(R.id.f1); final ImageView second_image = (ImageView)this.findViewById(R.id.f2); first_image.setOnClickListener(new View.OnClickListener(){ public void onClick(View view) { first_image.setVisibility(View.VISIBLE); view.setVisibility(View.GONE); } }); second_image.setOnClickListener(new View.OnClickListener(){ public void onClick(View view) { second_image.setVisibility(View.VISIBLE); view.setVisibility(View.GONE); } }); } }</pre>
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" tools:context=".MainActivity"> <FrameLayout</pre>

	<pre> android:layout_width="409dp" android:layout_height="354dp" tools:layout_editor_absoluteX="1dp" tools:layout_editor_absoluteY="131dp"> <ImageView android:id="@+id/f1" android:layout_width="match_parent" android:layout_height="match_parent" app:srcCompat="@drawable/f1" /> <ImageView android:id="@+id/f2" android:layout_width="match_parent" android:layout_height="match_parent" app:srcCompat="@drawable/f4" /> </FrameLayout> </androidx.constraintlayout.widget.ConstraintLayout> </pre>
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RESULT : The above program is successfully executed and obtained the output

OUTPUT :

