Lab Cycle: 02 Date:

EXPERIMENT NO: 05

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

Procedure:

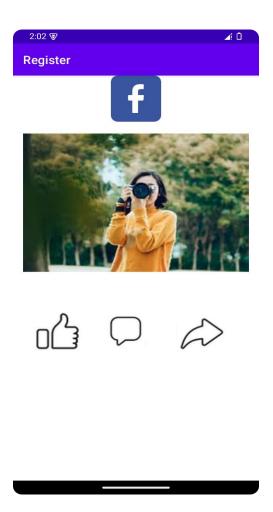
```
MainActivity.java
package com.example.s3mca55;
import androidx.appcompat.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.ImageView;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    // Find the ImageView elements by their IDs
    ImageView facebookView = findViewById(R.id.fbView);
    ImageView likeImgView = findViewById(R.id.likeView);
    ImageView commentImgView = findViewById(R.id.cmmntView);
    ImageView shareImgView = findViewById(R.id.shareView);
    // Set click listeners for the ImageViews
    likeImgView.setOnClickListener(new View.OnClickListener() {
       @Override
      public void onClick(View view) {
         showToast("You clicked the Like button");
```

```
}
     });
    commentImgView.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         showToast("You clicked the Comment button");
       }
    });
    shareImgView.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         showToast("You clicked the Share button");
       }
    });
  // Helper method to display a toast message
  private void showToast(String message){
       Toast.makeText(this, message, Toast.LENGTH_LONG).show();
     }
}
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent"
  android:paddingLeft="16dp"
  android:paddingRight="16dp" >
```

```
<ScrollView
  android:layout_width="match_parent"
  android:layout_height="match_parent">
  <LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical">
    <ImageView
      android:id="@+id/fbView"
      android:layout_width="200dp"
      android:layout_height="80dp"
      android:layout_gravity="center"
      android:src="@drawable/f"/>
    <ImageView
      android:id="@+id/imageView6"
      android:layout_width="match_parent"
      android:layout_height="281dp"
      android:src="@drawable/f"/>
    <androidx.gridlayout.widget.GridLayout
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      android:layout_gravity="center"
      android:layout_marginTop="40dp"
      app:columnCount="4"
      app:rowCount="4">
      <ImageView
```

```
android:id="@+id/likeView"
  android:layout_width="110dp"
  android:layout_height="83dp"
  app:layout_row="0"
  app:layout_column="1"
  android:clickable="true"
  android:onClick="onLikeClick"
  app:layout_gravity="center"
  android:src="@drawable/f"/>
<ImageView
  android:id="@+id/cmmntView"
  android:layout_width="111dp"
  android:layout_height="66dp"
  app:layout_row="0"
  app:layout_column="2"
  app:layout_gravity="center"
  android:clickable="true"
  android:onClick="onComntClick"
  android:src="@drawable/f"/>
<ImageView
  android:id="@+id/shareView"
  android:layout_width="93dp"
  android:layout_height="86dp"
  app:layout_row="0"
  app:layout_column="3"
  app:layout_gravity="center"
  android:clickable="true"
  android:onClick="onShareClick"
```

OUTPUT:



RESULT:

The program was executed successfully and the output was verified.

Lab Cycle: 02

EXPERIMENT NO: 06

AIM: Develop an application that toggles image using FrameLayout.

Procedure:

```
MainActivity.java
package com.example.s3mca55;
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);
    // Find the ImageView elements by their IDs
    i1= findViewById(R.id.img1);
    i2= findViewById(R.id.img2);
    // Set click listeners for the ImageViews
    i1.setOnClickListener(this);
    i2.setOnClickListener(this);
  }
  public void onClick(View view){
    if(view.getId()==R.id.img1){
      i1.setVisibility(view.GONE);
```

i2.setVisibility(view.VISIBLE);

```
}
    else{
      i2.setVisibility(view.GONE);
      i1.setVisibility(view.VISIBLE);
  }
activity_main.xml
<?xml version="1.0" encoding="utf-8"?>
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout_height="match_parent"
  android:background="#BDBABA"
  tools:context=".MainActivity">
  <ImageView
    android:id="@+id/img1"
    android:layout_width="427dp"
    android:layout_height="wrap_content"
    android:layout_gravity="left|top"
    android:background="#CACAC8"
    app:srcCompat="@drawable/f"/>
  <ImageView
    android:id="@+id/img2"
    android:layout_width="396dp"
```

```
android:layout_height="wrap_content"

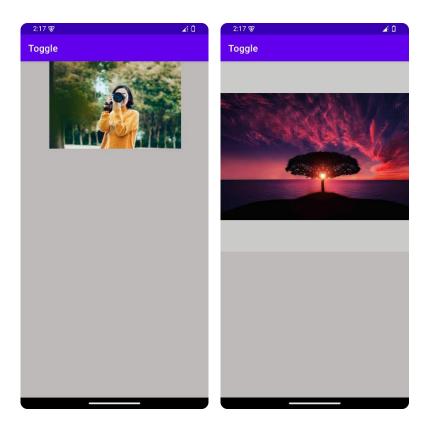
android:layout_gravity="left|top"

android:visibility="gone"

app:srcCompat="@drawable/ic_launcher_foreground"/>
```

</FrameLayout>

OUTPUT:



RESULT:

The program was executed successfully and the output was verified.

Lab Cycle: 02 Date:

EXPERIMENT NO: 07

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

Procedure:

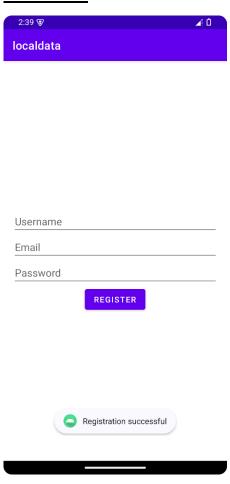
```
MainActivity.java
package com.example.s3mca55;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
  private EditText usrname, email, passwd;
  private Button regbtn;
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    usrname = findViewById(R.id.usernameText);
    email = findViewById(R.id.emailText);
    passwd = findViewById(R.id.passwordText);
    regbtn = findViewById(R.id.registerButton);
```

```
regbtn.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         String uname = usrname.getText().toString();
         String em = email.getText().toString();
         String pwd = passwd.getText().toString();
         //storing using shared preferences...
         SharedPreferences preferences = getSharedPreferences("MyPref", MODE_PRIVATE);
         SharedPreferences.Editor editor = preferences.edit();
         editor.putString("username", uname);
         editor.putString("email", em);
         editor.putString("password", pwd);
         editor.apply();
         Toast.makeText(MainActivity.this, "Registration successful",
Toast.LENGTH_SHORT).show();
         //start activity using Intent..
         Intent intent = new Intent(MainActivity.this, MainActivity.class);
         startActivity(intent);
       }
    });
  }
activity_main.xml
<?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:orientation="vertical"
android:padding="16dp"
android:gravity="center">
<EditText
  android:id="@+id/usernameText"
  android:layout_width="match_parent"
  android:layout_height="wrap_content"
  android:ems="10"
  android:inputType="text"
  android:hint="Username" />
<EditText
  android:id="@+id/emailText"
  android:layout_width="match_parent"
  android:layout_height="wrap_content"
  android:ems="10"
  android:inputType="textEmailAddress"
  android:hint="Email" />
<EditText
  android:id="@+id/passwordText"
  android:layout_width="match_parent"
  android:layout_height="wrap_content"
  android:ems="10"
  android:inputType="textPassword"
  android:hint="Password"/>
```

<Button android:id="@+id/registerButton" android:layout_width="wrap_content" android:layout_height="wrap_content" android:layout_gravity="center" android:text="Register" />

OUTPUT:



RESULT:

The program was executed successfully and the output was verified.