## Program no: 01

Aim: Program to develop the android mobile application which consist of GUI components.

## XML Code:

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:an[droid="ht](http://schemas.android.com/apk/res/android)tp://[schemas.](http://schemas.android.com/apk/res/android)an[droid.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:ap[p="htt](http://schemas.android.com/apk/res-auto)p:[//schemas.android](http://schemas.android.com/apk/res-auto).[com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:t[ools="htt](http://schemas.android.com/tools)p://[sch](http://schemas.android.com/tools)em[as.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" tools:context=".MainActivity" android:orientation="vertical" android:background="@color/black">

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="175dp" android:background="#04B3F8"

android:layout\_gravity="center" android:gravity="center">

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"

style="@style/TextAppearance.AppCompat.Large" android:text="HOME PAGE" android:textStyle="bold" android:textColor="@color/white"/>

</LinearLayout>

<androidx.cardview.widget.CardView android:layout\_gravity="center" android:padding="75dp" app:cardCornerRadius="50dp" android:layout\_margin="20dp" android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:layout\_marginTop="-175dp">

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:orientation="vertical" android:layout\_gravity="center" android:padding="30dp" android:gravity="center">

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Login Page" android:textColor="#01A9F4" android:textStyle="bold"

style="@style/TextAppearance.AppCompat.Medium" android:layout\_marginBottom="20dp"/>

<TextView android:layout\_width="match\_parent"

android:layout\_height="wrap\_content" android:text="Username" android:layout\_marginBottom="15dp"/>

<EditText android:id="@+id/username"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginBottom="20dp"/>

<TextView android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginBottom="15dp" android:text="Password"/>

<EditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginBottom="20dp"/>

<TextView android:layout\_width="match\_parent"

android:layout\_height="wrap\_content" android:layout\_marginBottom="20dp" android:text="Forgot password?" android:gravity="end"/>

<Button android:id="@+id/b1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content" android:background="@drawable/bg\_button" android:text="Login" android:layout\_marginBottom="20dp" android:textAllCaps="false"/>

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="SignUp?" android:textColor="#01A9F4" android:textStyle="bold"/>

</LinearLayout>

</androidx.cardview.widget.CardView>

</LinearLayout>

## Java Code:

package com.example.login2;

import androidx.appcompat.app.AppCompatActivity; 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 {

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

getSupportActionBar().hide();

EditText username = findViewById(R.id.username); Button b1= findViewById(R.id.b1); b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) { Toast.makeText(MainActivity.this, "Successfully Logged in",

Toast.LENGTH\_SHORT).show();

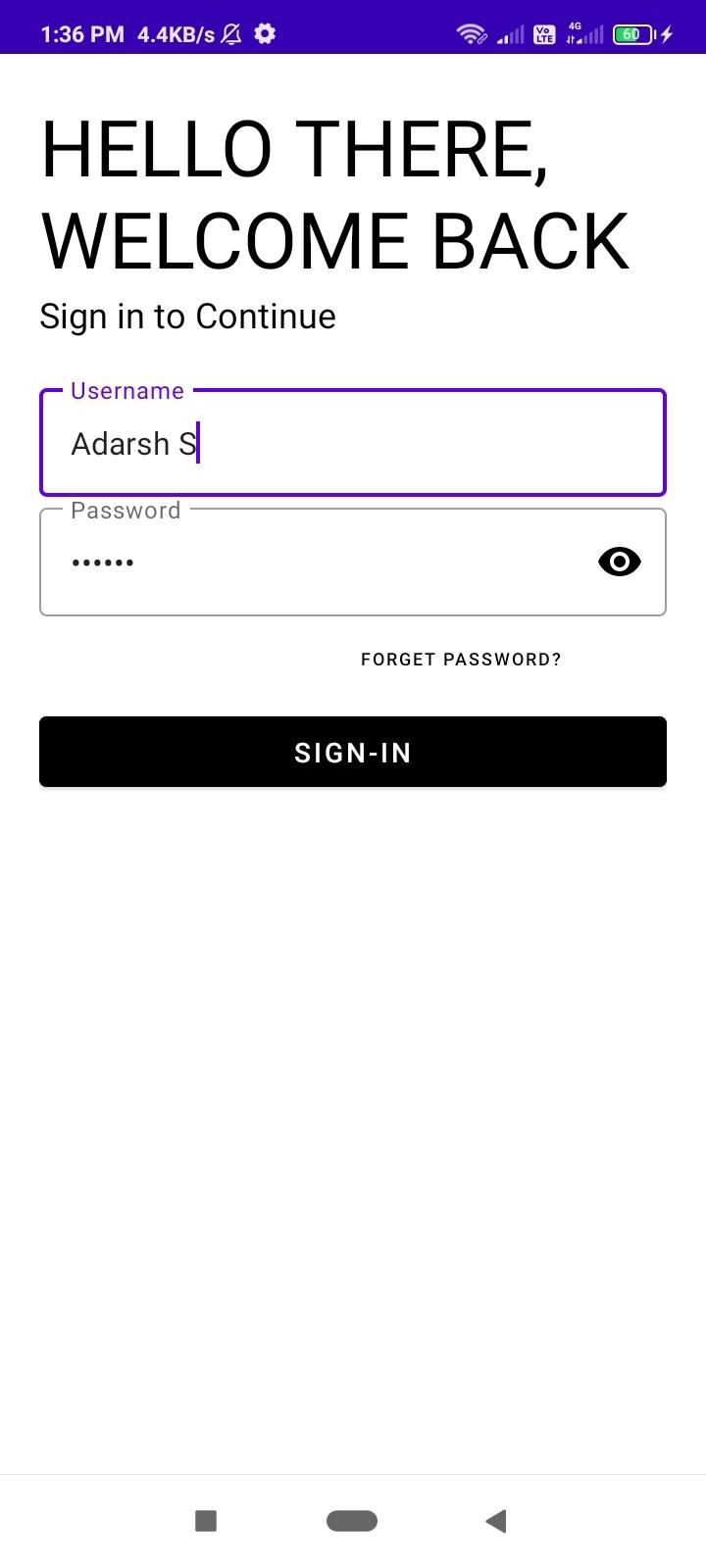
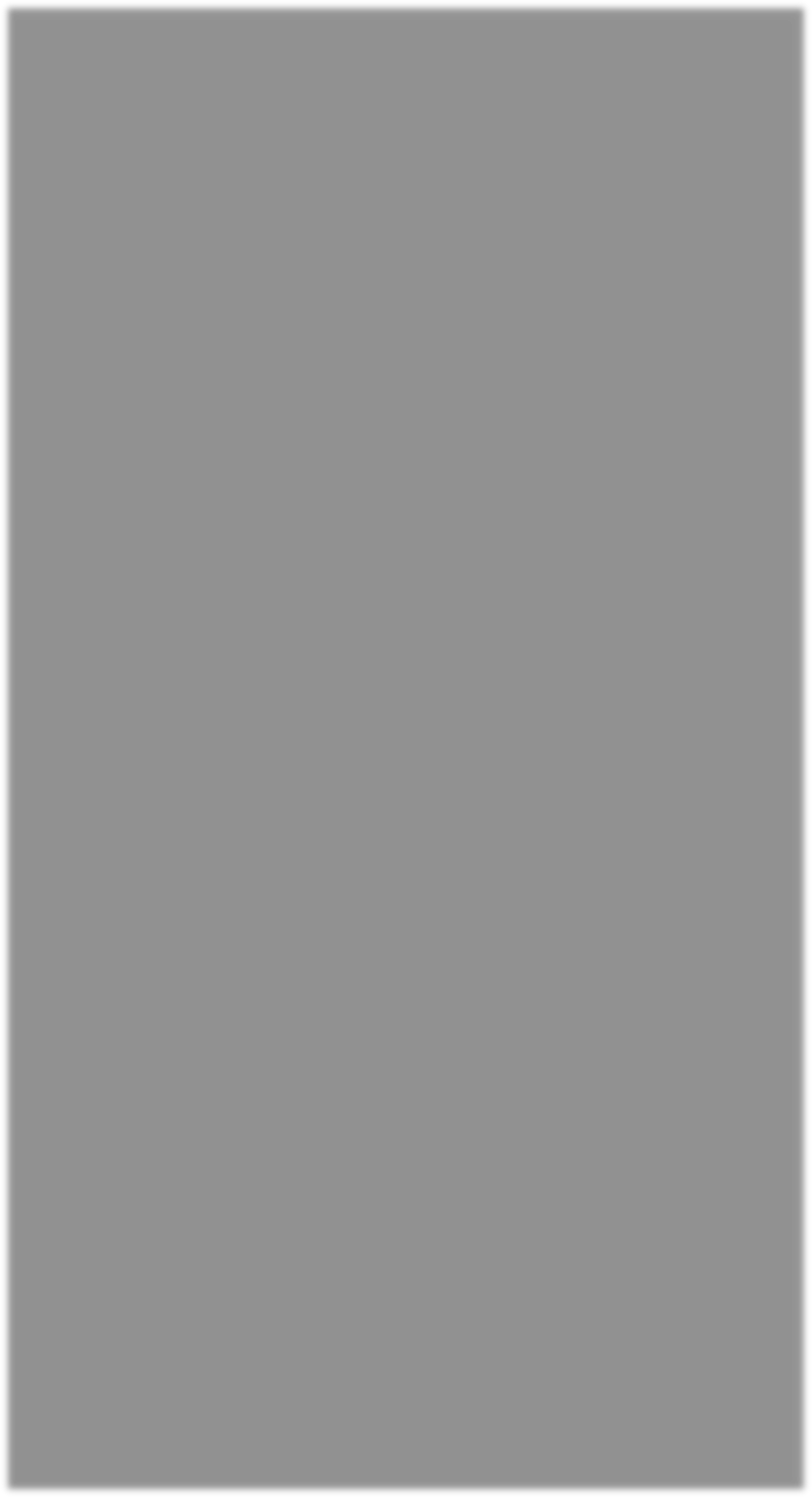
}

});

}

}

## Output:



**Program no: 02**

**Aim**: Program to display the content of EditText in TextViewon buttonclick.

## XML Code:

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android=["ht](http://schemas.android.com/apk/res/android)t[p://schemas.android.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:ap[p="htt](http://schemas.android.com/apk/res-auto)p:[//schemas.android](http://schemas.android.com/apk/res-auto).[com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:t[ools="htt](http://schemas.android.com/tools)p://[sch](http://schemas.android.com/tools)em[as.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" tools:context=".MainActivity" android:layout\_gravity="center" android:gravity="center"

android:padding="30dp" android:background="#F44336">

<androidx.cardview.widget.CardView android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:padding="25dp">

<LinearLayout android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:orientation="vertical" android:layout\_gravity="center" android:padding="25dp">

<EditText android:id="@+id/in"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:hint="Enter" android:textColor="@color/black" android:layout\_marginBottom="15dp"/>

<TextView android:id="@+id/out"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:textColor="@color/black"

style="@style/TextAppearance.AppCompat.Large" android:layout\_marginBottom="15dp"/>

<Button android:id="@+id/b1"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Get Text"/>

</LinearLayout>

</androidx.cardview.widget.CardView>

</LinearLayout>

## Java Code:

package com.example.textview2;

import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle;

import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.TextView; import org.w3c.dom.Text;

public class MainActivity extends AppCompatActivity { @Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main); getSupportActionBar().hide();

EditText in =findViewById(R.id.in); TextView out =findViewById(R.id.out); Button b1 =findViewById(R.id.b1);

b1.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View v) {

String input =in.getText().toString(); out.setText(input);

}

});

}

}

## Output:



**Program no: 03**

**Aim:** Design a Login Form with username and password using LinearLayout and toast valid credentials

## XML Code:

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:an[droid="ht](http://schemas.android.com/apk/res/android)tp://[schemas.](http://schemas.android.com/apk/res/android)an[droid.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:ap[p="htt](http://schemas.android.com/apk/res-auto)p:[//schemas.android](http://schemas.android.com/apk/res-auto).[com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:t[ools="htt](http://schemas.android.com/tools)p://[sch](http://schemas.android.com/tools)em[as.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:background="#504B4B" tools:context=".MainActivity">

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:layout\_gravity="center" android:gravity="left|center" android:orientation="vertical"

android:padding="80dp">

<androidx.cardview.widget.CardView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:layout\_marginBottom="40dp" app:cardCornerRadius="25dp">

<ImageView android:layout\_width="80dp" android:layout\_height="64dp" android:layout\_gravity="center" android:src="@drawable/login" />

</androidx.cardview.widget.CardView>

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginBottom="20dp" android:text="Username"

android:textColor="#A4BABA" />

<EditText android:id="@+id/username"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginBottom="20dp" />

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginBottom="20dp" android:text="Password" android:textColor="#A4BABA" />

<EditText android:id="@+id/password"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginBottom="20dp" android:inputType="textPassword" />

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="end" android:layout\_marginBottom="20dp" android:text="Forgot Password?" android:textColor="#A4BABA" />

<Button android:id="@+id/b1"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginBottom="20dp" android:background="@drawable/bg\_button" android:text="Login" android:textAllCaps="false" />

<LinearLayout android:layout\_width="match\_parent"

android:layout\_height="wrap\_content" android:gravity="center" android:orientation="horizontal">

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginRight="15dp" android:text="New User?" android:textColor="#A4BABA" />

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="SignUp?" android:textColor="#48B34C" android:textStyle="bold" />

</LinearLayout>

<EditText

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" />

</LinearLayout>

</LinearLayout>

## Java Code:

package com.example.loginpage;

import androidx.appcompat.app.AppCompatActivity; 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 {

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

EditText username =findViewById(R.id.username); Button b1 =findViewById(R.id.b1); b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String user=username.getText().toString(); Toast.makeText(MainActivity.this, "Welcome "+user,

Toast.LENGTH\_LONG).show();

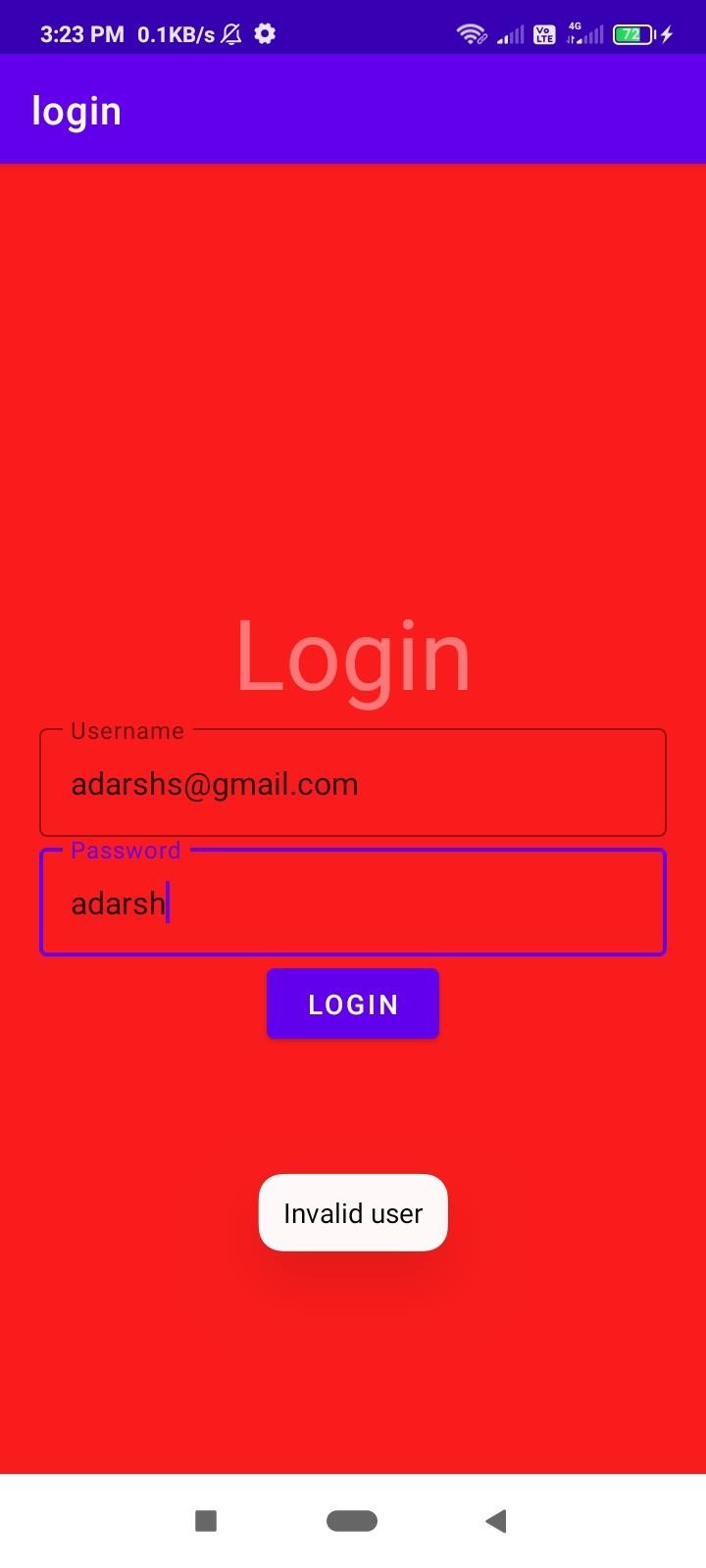
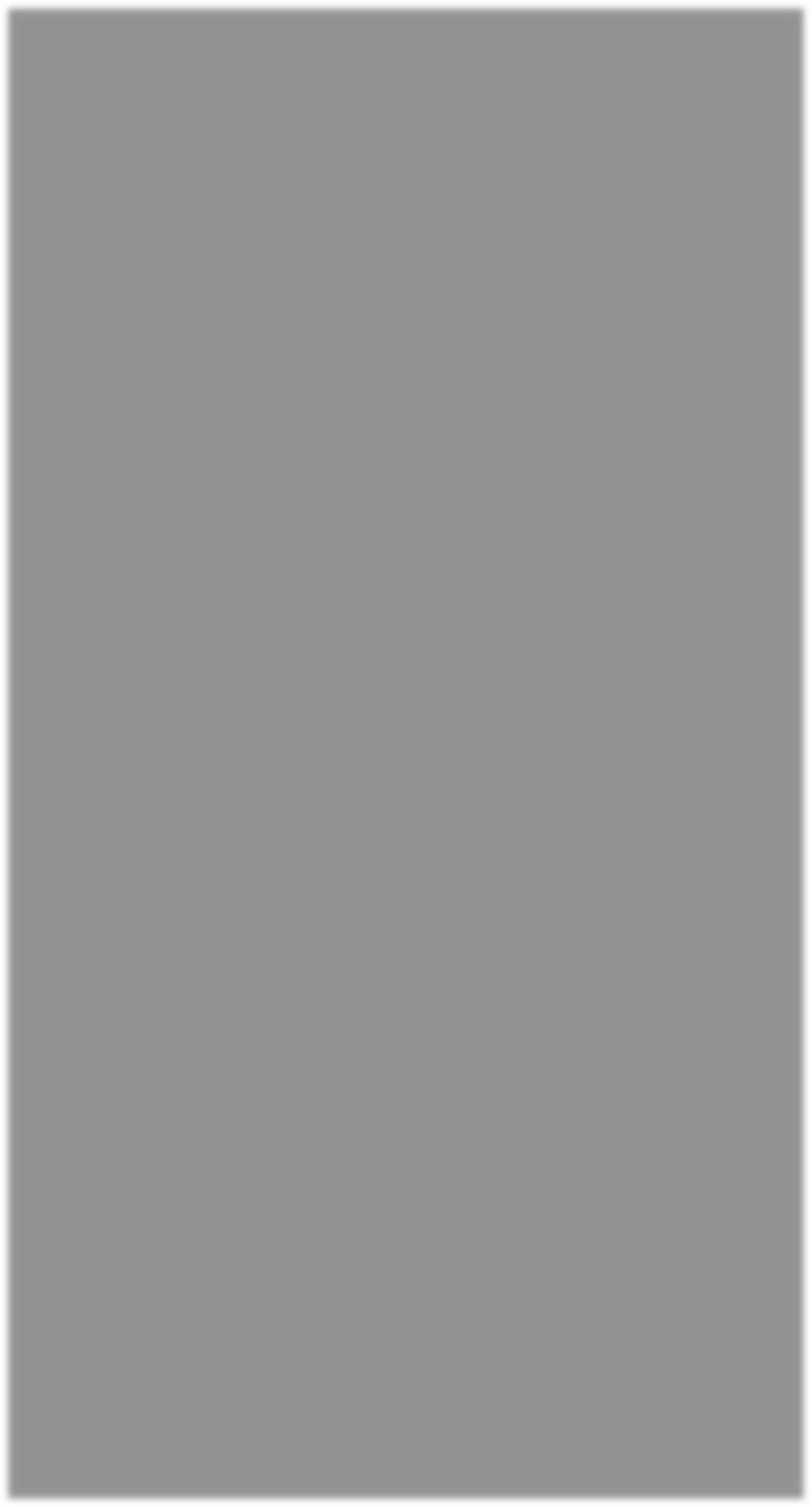
}

});

}

}

## Output



**Program no: 04**

**Aim**: Implementing basic arithmetic operations of a simple calculator

## XML Code:

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:an[droid="ht](http://schemas.android.com/apk/res/android)tp://[schemas.](http://schemas.android.com/apk/res/android)an[droid.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:ap[p="htt](http://schemas.android.com/apk/res-auto)p:[//schemas.android](http://schemas.android.com/apk/res-auto).[com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:t[ools="htt](http://schemas.android.com/tools)p://s[chemas.android](http://schemas.android.com/tools).[com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:orientation="vertical" tools:context=".MainActivity">

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:gravity="center">

<EditText android:id="@+id/op1"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="20dp" android:hint="Operand 1" />

<EditText android:id="@+id/op2"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="20dp" android:hint="Operand 2" />

</LinearLayout>

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content"

android:gravity="center">

<Button android:id="@+id/add"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginRight="10dp" android:text="+" android:textSize="20dp" />

<Button android:id="@+id/minus"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginRight="10dp" android:text="-" android:textSize="20dp" />

</LinearLayout>

<LinearLayout

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:layout\_marginTop="25dp">

<Button android:id="@+id/mul"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginRight="10dp" android:text="\*" android:textSize="20dp" />

<Button android:id="@+id/div"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="/" android:textSize="20dp" />

</LinearLayout>

<LinearLayout android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:layout\_marginTop="25dp">

<Button android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="=" android:textSize="20dp" />

</LinearLayout>

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginTop="30dp"

android:gravity="center">

<TextView android:id="@+id/output"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:hint="Output" android:textSize="30dp" />

</LinearLayout>

</LinearLayout>

## Java Code:

package com.example.calculator;

import androidx.appcompat.app.AppCompatActivity; import android.os.Bundle;

import android.view.View; import android.widget.Button; import android.widget.EditText; import android.widget.TextView;

import android.widget.Toast;

public class simpleCal extends AppCompatActivity { EditText no1, no2;

Button add, mul, div, sub, equal; TextView answer;

double ans = 0;

@Override protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState); setContentView(R.layout.activity\_simple\_cal); // for text views no1 = findViewById(R.id.first\_no);

no2 = findViewById(R.id.second\_no);

// for button with operations

add = findViewById(R.id.add);

mul = findViewById(R.id.mul);

div = findViewById(R.id.div);

sub = findViewById(R.id.sub);

// for equal to button

equal = findViewById(R.id.equals);

// for answer field

answer = findViewById(R.id.answer);

add.setOnClickListener(new View.OnClickListener() { @Override public void onClick(View v)

{

String num1 = no1.getText().toString(); String num2 = no2.getText().toString(); if (num1.isEmpty() || num2.isEmpty()) {

Toast.makeText(getApplicationContext(),"EnterNumbers", Toast.LENGTH\_SHORT).show();

}

else

{

double a = Double.parseDouble(no1.getText().toString()); double b = Double.parseDouble(no2.getText().toString()); ans = a + b;

}

}

});

sub.setOnClickListener(new View.OnClickListener()

{

@Override public void onClick(View v)

{

String num1 = no1.getText().toString(); String num2 = no2.getText().toString(); if (num1.isEmpty() || num2.isEmpty())

{

Toast.makeText(getApplicationContext(), "Enter Numbers", Toast.LENGTH\_SHORT).show(); }

Else

{

double a = Double.parseDouble(no1.getText().toString()); double b = Double.parseDouble(no2.getText().toString()); ans = a - b;

}

}

});

mul.setOnClickListener(new View.OnClickListener()

{

@Override public void onClick(View v) { String num1 = no1.getText().toString();

String num2 = no2.getText().toString(); if (num1.isEmpty() || num2.isEmpty())

{

Toast.makeText(getApplicationContext(), "Enter Numbers", Toast.LENGTH\_SHORT).show();

}

Else

{

double a = Double.parseDouble(no1.getText().toString()); double b = Double.parseDouble(no2.getText().toString()); ans = a \* b;

}

}

});

div.setOnClickListener(new View.OnClickListener()

{

@Override public void onClick(View v) { String num1 = no1.getText().toString(); String num2 = no2.getText().toString(); if (num1.isEmpty() || num2.isEmpty())

{

Toast.makeText(getApplicationContext(), "Enter Numbers", Toast.LENGTH\_SHORT).show();

}

else

{

double a = Double.parseDouble(no1.getText().toString()); double b = Double.parseDouble(no2.getText().toString()); if (b != 0){

ans = a / b;

else Toast.makeText(getApplicationContext(), "Enter Valid Numbers", Toast.LENGTH\_SHORT).show();

}

}

});

equal.setOnClickListener(new View.OnClickListener()

{ @Override public void onClick(View v) { String ans1 = String.valueOf(ans); answer.setText(ans1); ans = 0;

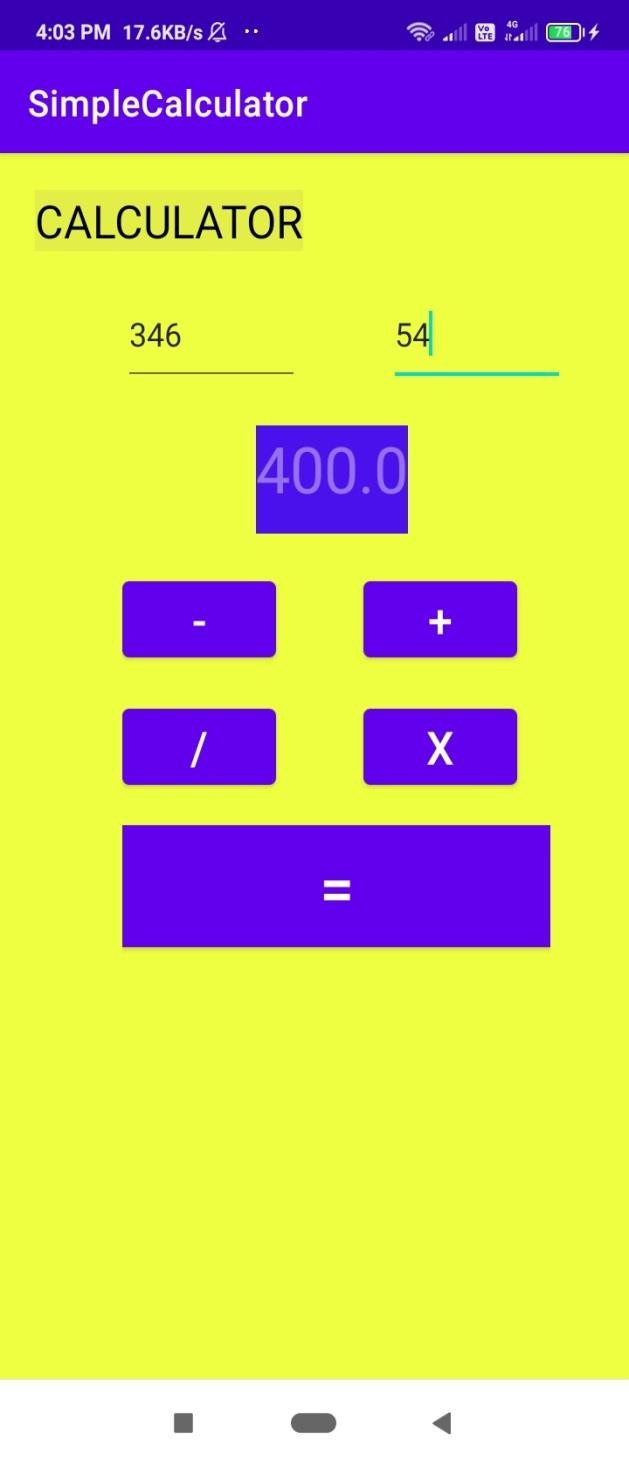
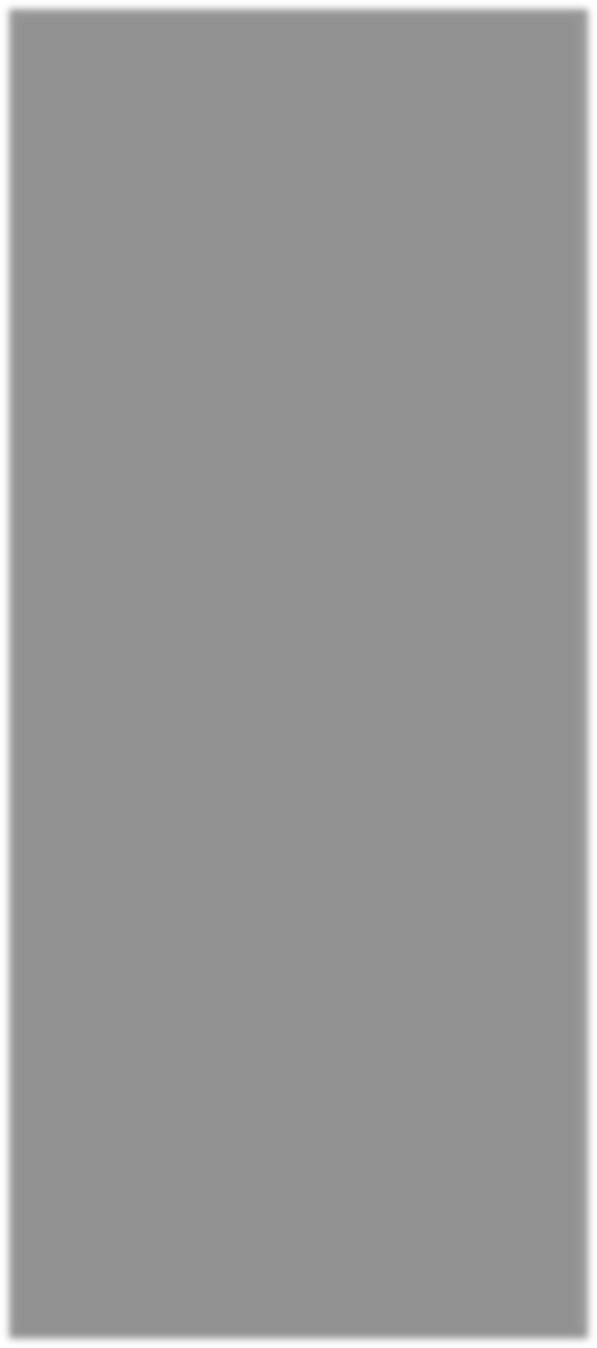
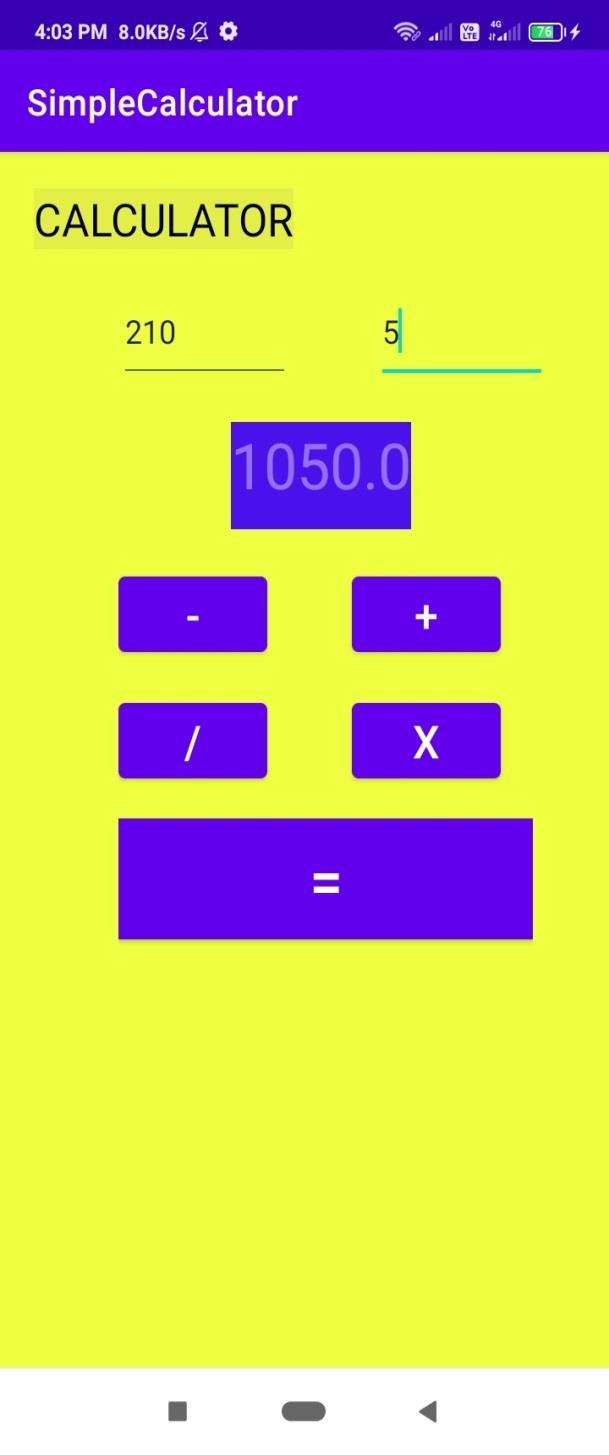
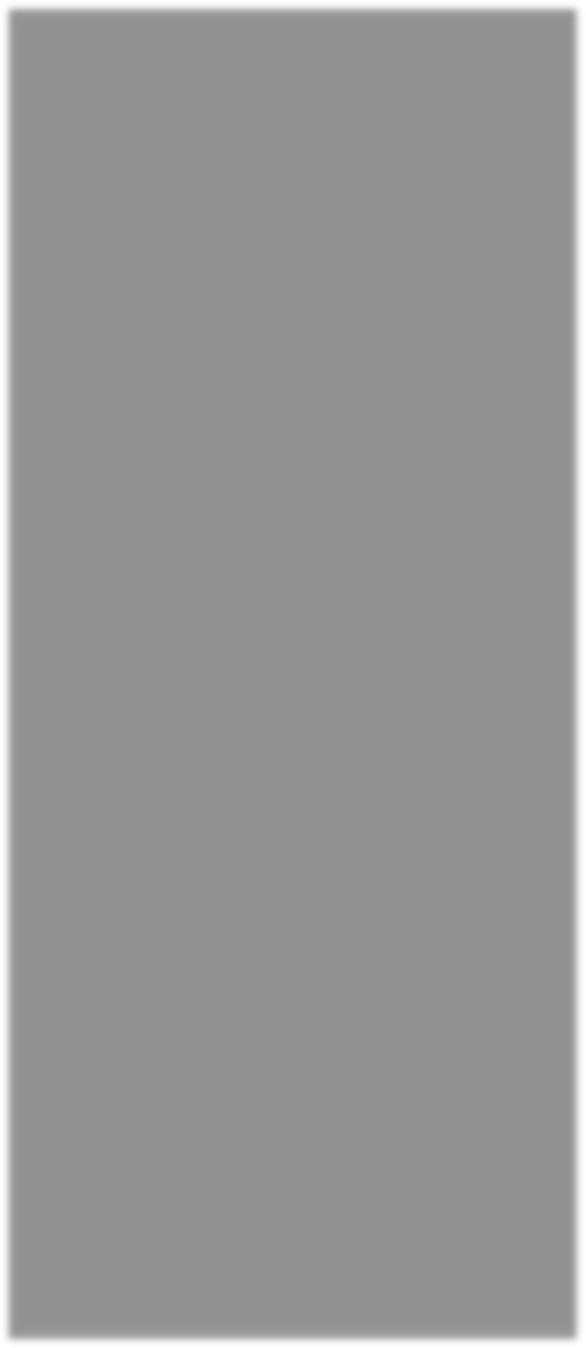
}

});

}

}

## Output



**Program no: 05**

**Aim: Implement validations on various UI controls**

## XML Code:

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="<http://schemas.android.com/apk/res/androd>" xmlns:tools="<http://schemas.android.com/tools>" android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:orientation="vertical"

tools:context=".Ui\_validation" tools:ignore="HardcodedText">

<EditText android:id="@+id/firstName"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="16dp" android:layout\_marginTop="16dp" android:layout\_marginEnd="16dp" android:hint="First Name" android:inputType="text" />

<EditText android:id="@+id/lastName"

android:layout\_width="match\_parent" android:layout\_height="wrap\_conntandroid:layout\_marginStart="16dp" android:layout\_marginTop="16dp" android:layout\_marginEnd="16dp" android:hint="Last Name" android:inputType="text" />

<EditText android:id="@+id/email"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="16dp" android:layout\_marginTop="16dp" android:layout\_marginEnd="16dp" android:hint="Email" android:inputType="textEmailAddress" />

<EditText android:id="@+id/password"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginStart="16dp" android:layout\_marginTop="16dp"

android:layout\_marginEnd="16dp" android:hint="Password" android:inputType="textPassword" />

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginTop="8dp" android:gravity="end" android:orientation="horizontal">

<Button

android:id="@+id/cancelButton" style="@style/Widget.AppCompat.Button.Borderless" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginEnd="4dp" android:text="CANCEL" android:textColor="@color/white" />

<Button

android:id="@+id/proceedButton" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginEnd="16dp" android:backgroundTint="@color/black" android:text="PROCEED"

android:textColor="@android:color/white" tools:ignore="ButtonStyle" />

</LinearLayout>

</LinearLayout>

**Java Code:**

package com.example.adaptor; import android.os.Bundle; import android.view.Menu;

import android.view.MenuInflater; import android.view.MenuItem; import android.view.View;

import android.widget.AdapterView; import android.widget.Button; import android.widget.EditText; import android.widget.TextView; import android.widget.Toast;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity { Button bCancel, bProceed;

EditText etFirstName, etLastName, etEmail, etPassword; boolean isAllFieldsChecked = false;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

bProceed = findViewById(R.id.proceedButton); bCancel = findViewById(R.id.cancelButton); etFirstName = findViewById(R.id.firstName); etLastName = findViewById(R.id.lastName); etEmail = findViewById(R.id.email); etPassword = findViewById(R.id.password);

bProceed.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) { if (isAllFieldsChecked) {

Intent i = new Intent(Ui\_validation.this, Dashboard.class); startActivity(i);

}

}

});

bCancel.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View v) { Ui\_validation.this.finish(); System.exit(0);

}

});

}

private boolean CheckAllFields() {

if (etFirstName.length() == 0) { etFirstName.setError("This field is required"); return false;

}

if (etLastName.length() == 0) { etLastName.setError("This field is required"); return false;

}

if (etEmail.length() == 0) { etEmail.setError("Email is required"); return false;

}

if (etPassword.length() == 0) { etPassword.setError("Password is required"); return false;

} else if (etPassword.length() < 8) {

etPassword.setError("Password must be minimum 8 characters");

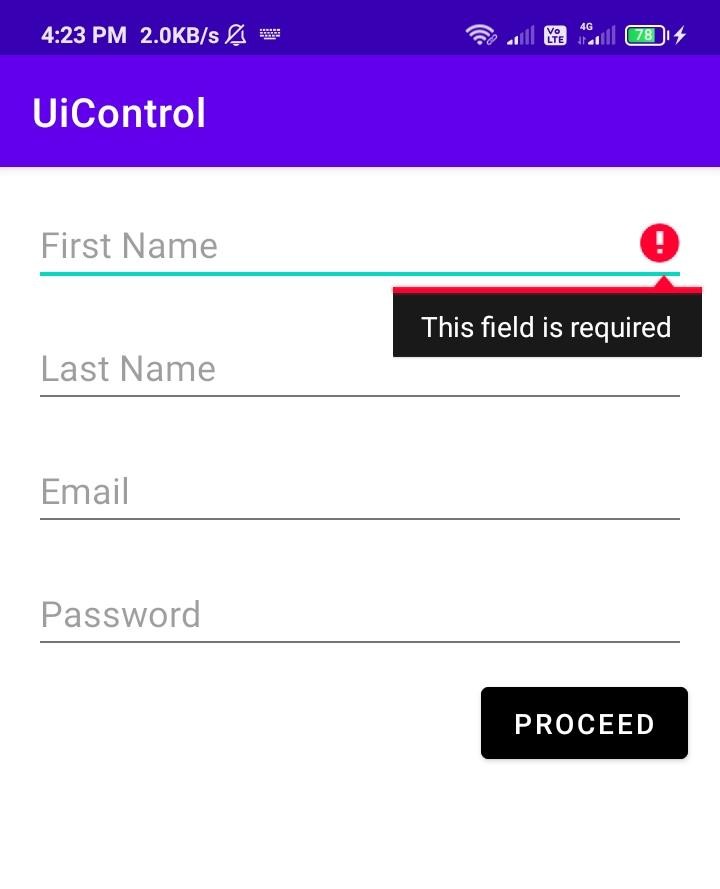
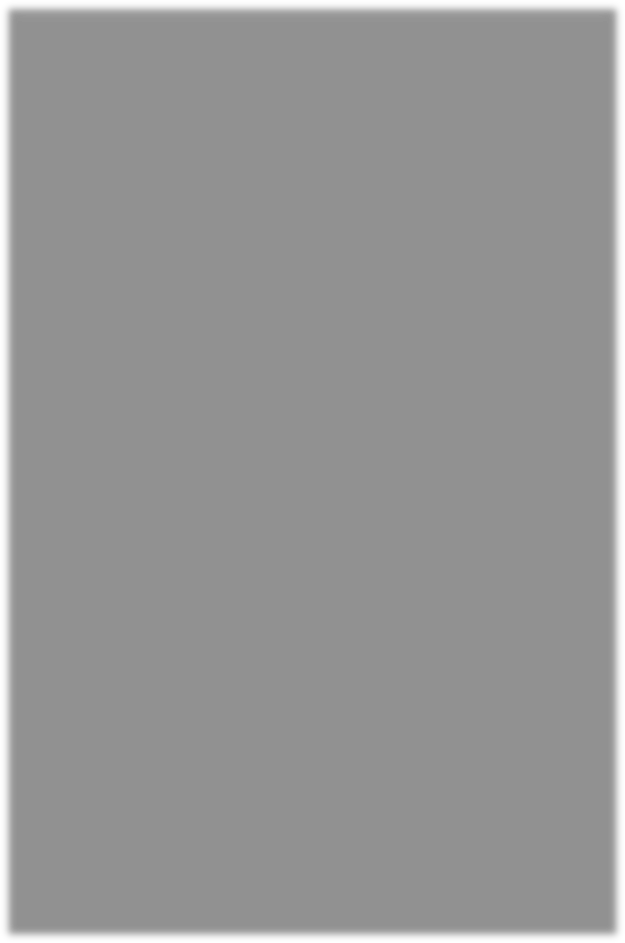
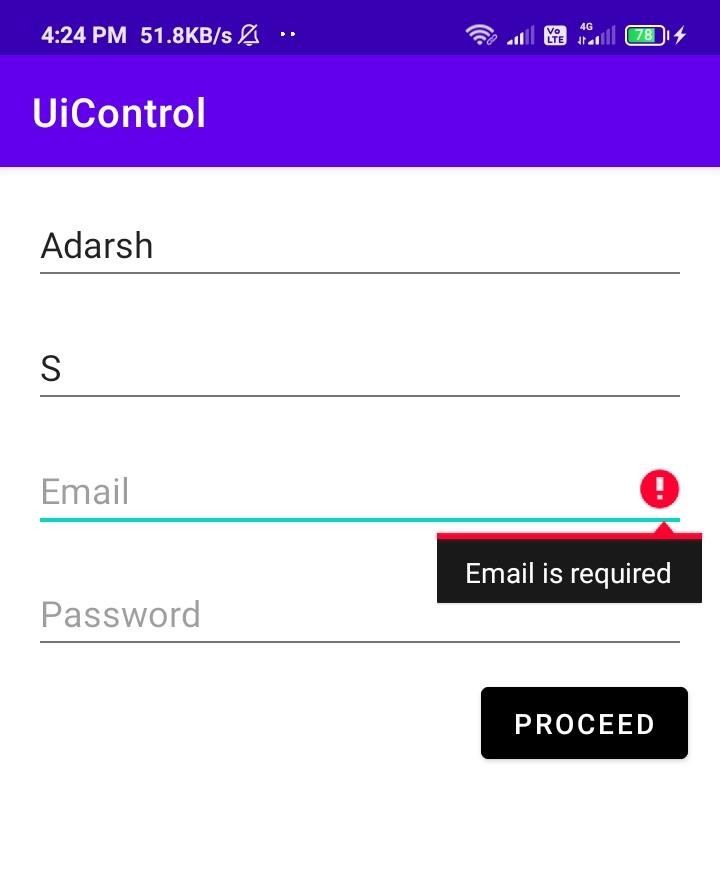
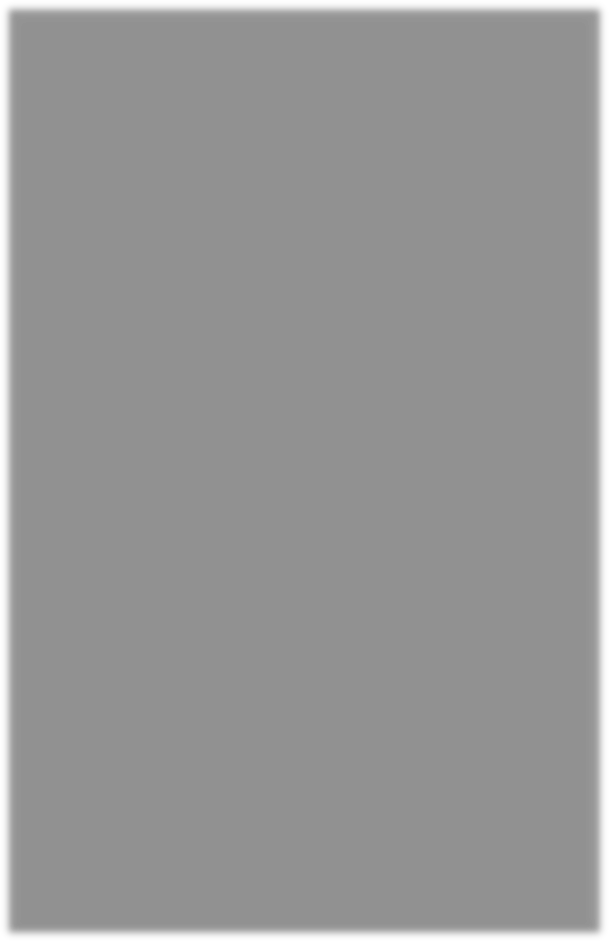
return false;

}

}

}

## Output



**Program no: 06**

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

## XML Code:

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:an[droid="ht](http://schemas.android.com/apk/res/android)tp://[schemas.](http://schemas.android.com/apk/res/android)an[droid.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:t[ools="htt](http://schemas.android.com/tools)p://[sch](http://schemas.android.com/tools)em[as.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:layout\_gravity="center" android:orientation="vertical" tools:context=".MainActivity">

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:text="Intent Form"

android:textColor="#0A5D83" android:textSize="40dp" />

<EditText android:id="@+id/iname" android:layout\_width="150dp"

android:layout\_height="wrap\_content" android:layout\_gravity="center" android:layout\_margin="40dp" android:hint="Name" android:textColor="@color/black" />

<EditText android:id="@+id/iemail" android:layout\_width="150dp"

android:layout\_height="wrap\_content" android:layout\_gravity="center" android:layout\_marginBottom="40dp" android:hint="email"

android:textColor="@color/black" />

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:text="SharedPreference Form" android:textColor="#0A5D83" android:textSize="30dp" />

<EditText android:id="@+id/sname" android:layout\_width="150dp"

android:layout\_height="wrap\_content" android:layout\_gravity="center" android:layout\_margin="40dp" android:hint="Name" android:textColor="@color/black" />

<EditText android:id="@+id/semail" android:layout\_width="150dp"

android:layout\_height="wrap\_content" android:layout\_gravity="center" android:layout\_marginBottom="40dp" android:hint="email" android:textColor="@color/black" />

<Button android:id="@+id/save"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:text="SAVE" />

</LinearLayout>

## activity\_main2.xml

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android=["ht](http://schemas.android.com/apk/res/android)t[p://schemas.android.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:t[ools="htt](http://schemas.android.com/tools)p://[sch](http://schemas.android.com/tools)em[as.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:layout\_gravity="center" android:orientation="vertical" tools:context=".MainActivity2">

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:text="Intent Form" android:textColor="#0A5D83" android:textSize="40dp" />

<LinearLayout android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"

android:layout\_gravity="center" android:orientation="horizontal">

<TextView android:layout\_width="150dp" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:gravity="center" android:text="Name" android:textColor="@color/black" />

<TextView android:id="@+id/ioname" android:layout\_width="150dp"

android:layout\_height="wrap\_content" android:layout\_gravity="center" android:layout\_margin="40dp" android:textColor="@color/black" />

</LinearLayout>

<LinearLayout android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:orientation="horizontal">

<TextView android:layout\_width="150dp" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:gravity="center" android:text="email" android:textColor="@color/black" />

<TextView android:id="@+id/ioemail"

android:layout\_width="150dp" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:layout\_margin="40dp" android:textColor="@color/black" />

</LinearLayout>

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:text="SharedPreference Form" android:textColor="#0A5D83" android:textSize="30dp" />

<LinearLayout

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:orientation="horizontal">

<TextView android:layout\_width="150dp" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:gravity="center" android:text="Name" android:textColor="@color/black" />

<TextView android:id="@+id/soname" android:layout\_width="150dp"

android:layout\_height="wrap\_content" android:layout\_gravity="center" android:layout\_margin="40dp"

android:textColor="@color/black" />

</LinearLayout>

<LinearLayout android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:orientation="horizontal">

<TextView android:layout\_width="150dp" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:gravity="center" android:text="email" android:textColor="@color/black" />

<TextView android:id="@+id/soemail" android:layout\_width="150dp"

android:layout\_height="wrap\_content" android:layout\_gravity="center" android:layout\_margin="40dp" android:textColor="@color/black" />

</LinearLayout>

</LinearLayout>

## Java Code:

**MainActivity.java**

package com.example.adaptor;

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 androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

EditText iname = findViewById(R.id.iname); EditText sname = findViewById(R.id.sname); EditText iemail = findViewById(R.id.iemail); EditText semail = findViewById(R.id.semail); Button save = findViewById(R.id.save);

save.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View v) {

Intent i1 = new Intent(MainActivity.this, MainActivity2.class); i1.putExtra("name", iname.getText().toString()); i1.putExtra("email", iemail.getText().toString());

SharedPreferences sharedPreferences = getSharedPreferences("MySharedPref",

MODE\_PRIVATE);

SharedPreferences.Editor myEdit = sharedPreferences.edit(); myEdit.putString("name", sname.getText().toString()); myEdit.putString("email", semail.getText().toString()); myEdit.apply();

startActivity(i1);

}

});

}

}

## MainActivity2.java

package com.example.adaptor;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.content.SharedPreferences; 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 ioname = findViewById(R.id.ioname); TextView ioemail = findViewById(R.id.ioemail); TextView soname = findViewById(R.id.soname); TextView soemail = findViewById(R.id.soemail); Intent i1 = getIntent(); ioname.setText(i1.getStringExtra("name"));

ioemail.setText(i1.getStringExtra("email"));

SharedPreferences sharedPreferences = getSharedPreferences("MySharedPref",

MODE\_PRIVATE);

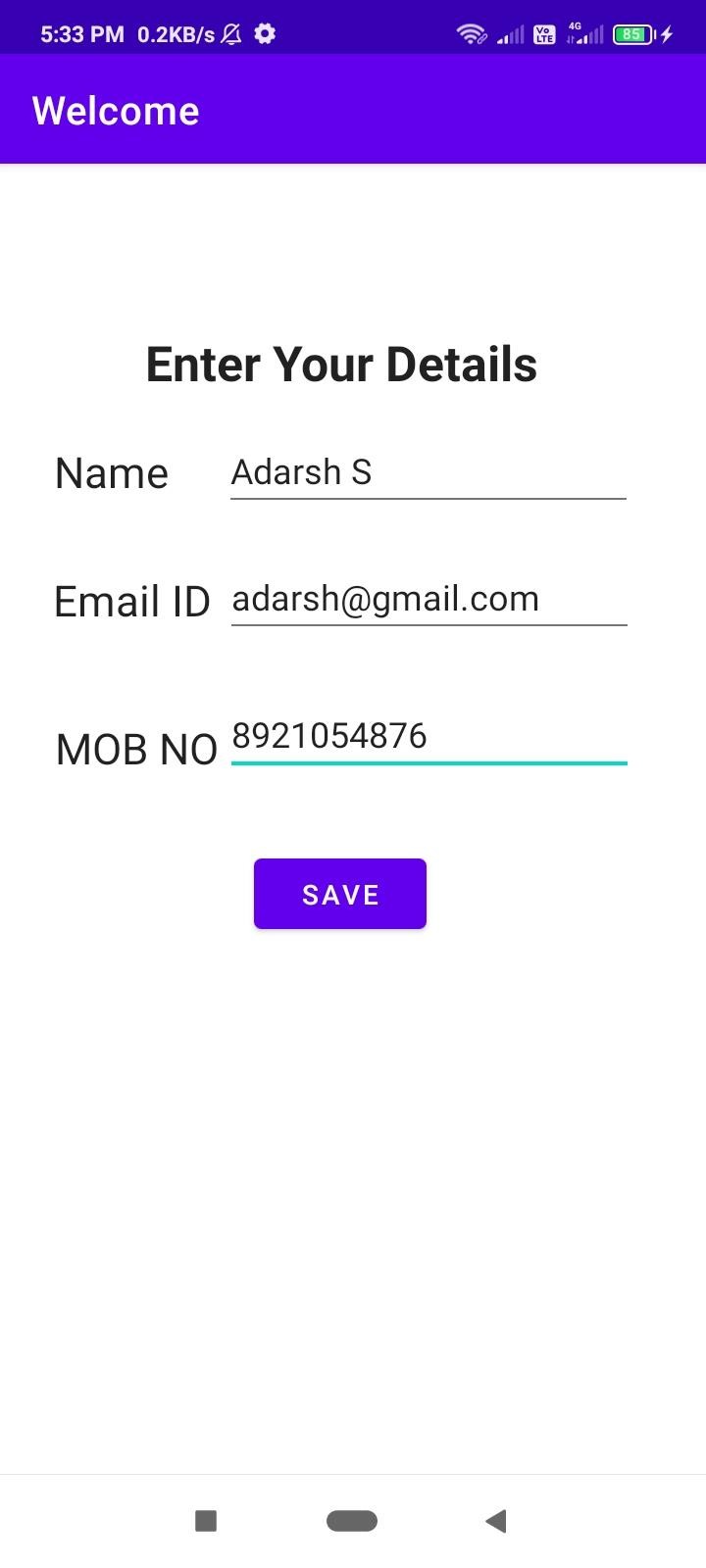
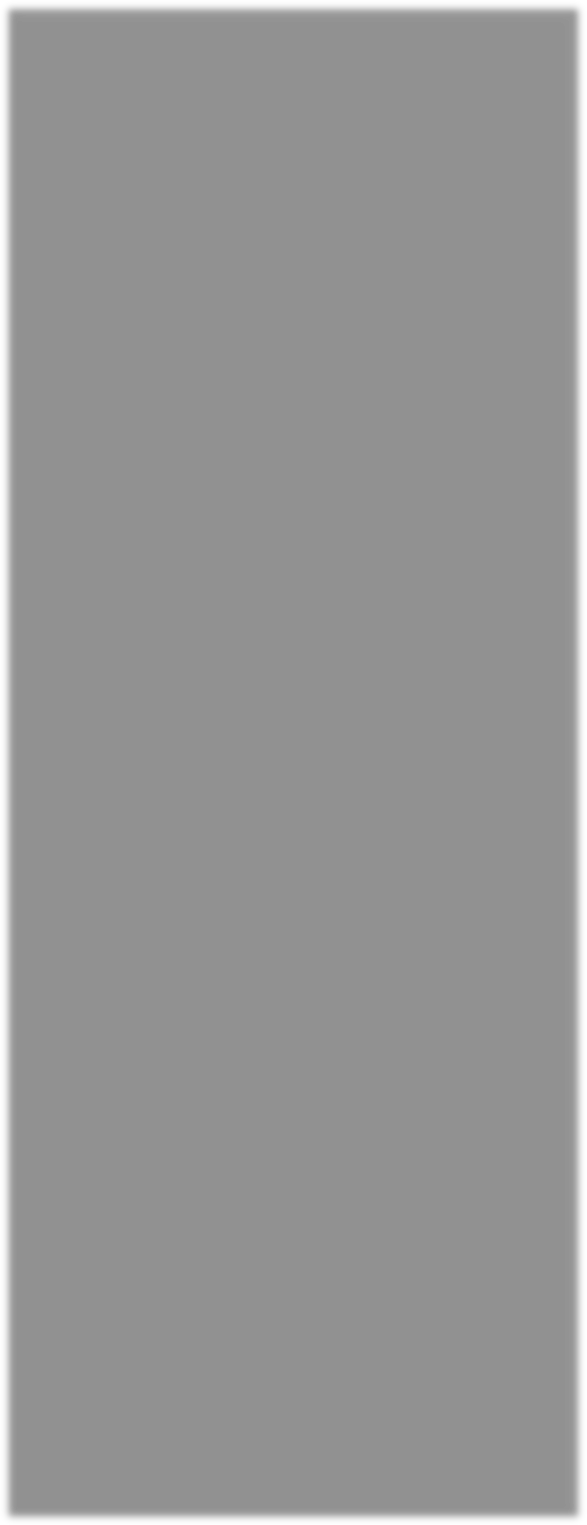
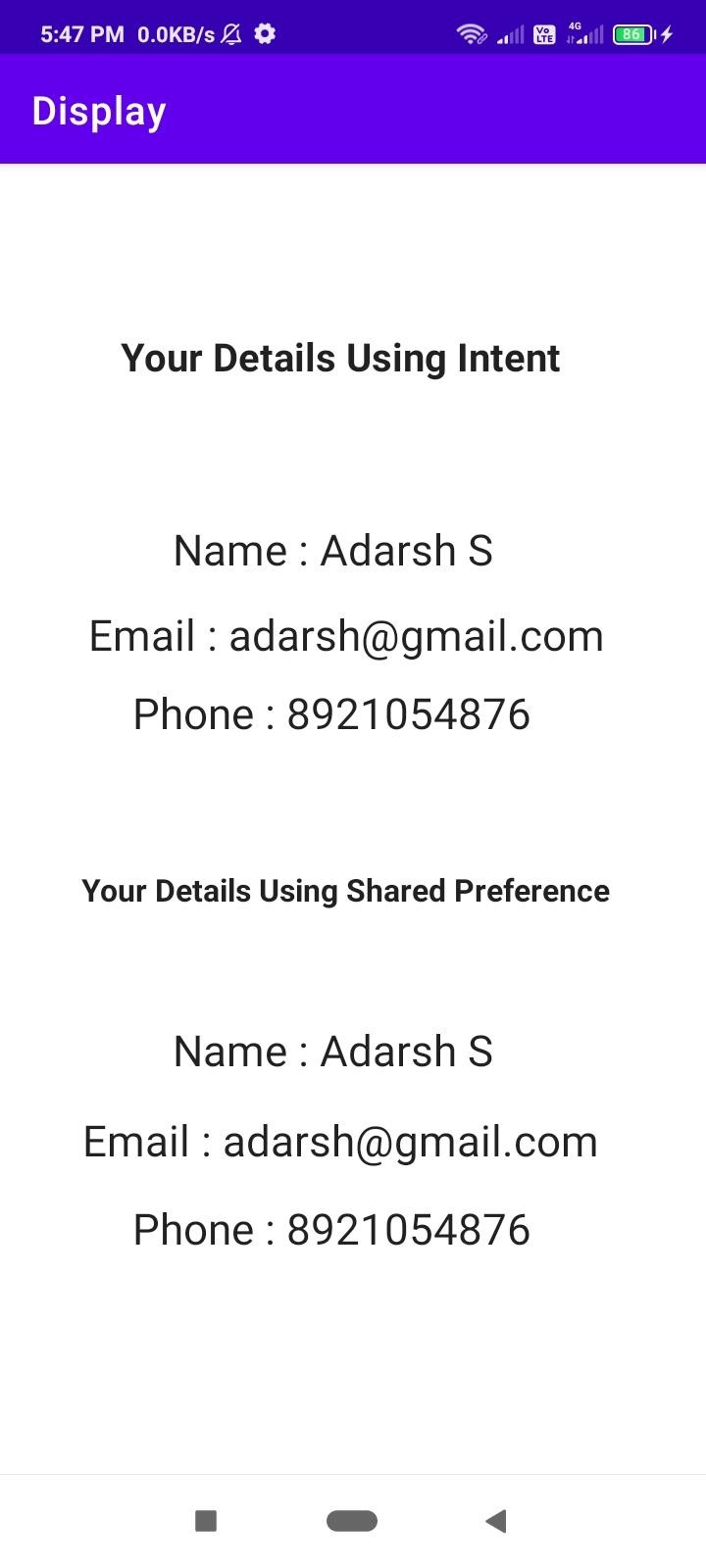
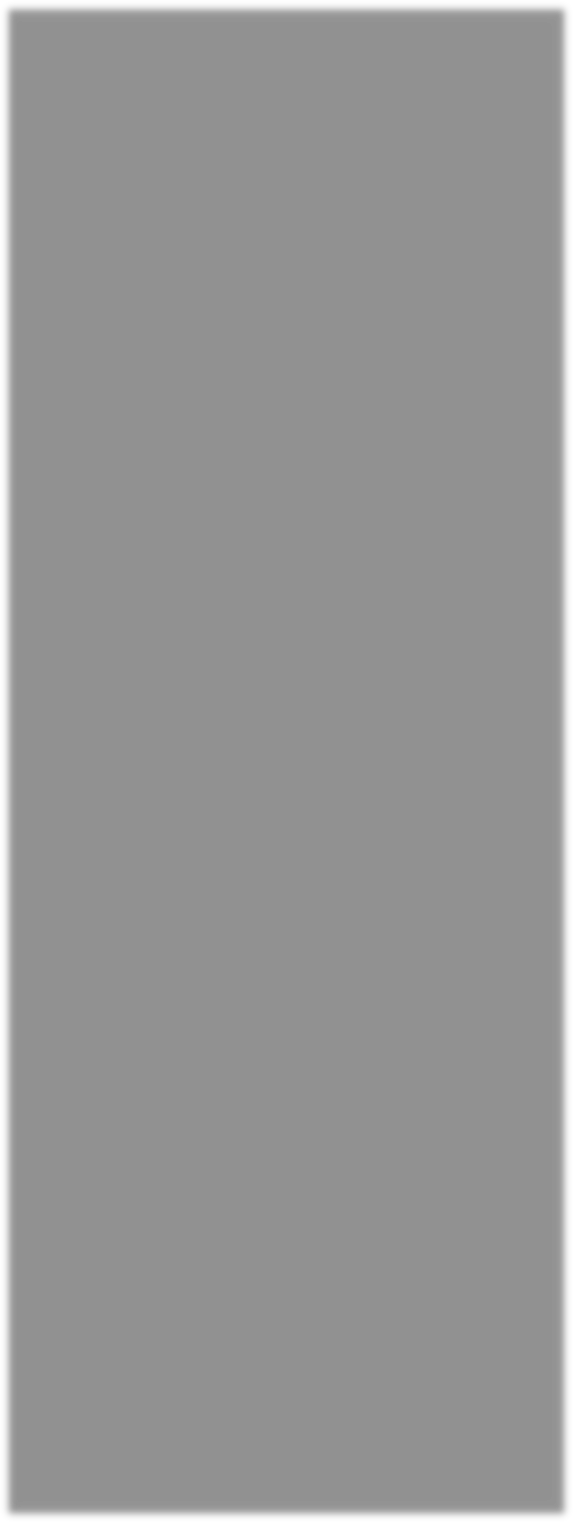
String Name = sharedPreferences.getString("name", ""); String Email = sharedPreferences.getString("email", ""); soname.setText(Name);

soemail.setText(Email);

}

}

## Output:



**Program no: 07**

## Aim: Program to design a simple calculator using Grid Layout and Cascaded LinearLayout.

## XML Code:

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:an[droid="ht](http://schemas.android.com/apk/res/android)tp://[schemas.](http://schemas.android.com/apk/res/android)an[droid.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:ap[p="htt](http://schemas.android.com/apk/res-auto)p:[//schemas.android](http://schemas.android.com/apk/res-auto).[com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:t[ools="htt](http://schemas.android.com/tools)p://[sch](http://schemas.android.com/tools)em[as.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:background="#323030" android:layout\_gravity="bottom" android:gravity="bottom" android:orientation="vertical" tools:context=".MainActivity">

<LinearLayout

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:orientation="vertical">

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_gravity="end" android:orientation="vertical">

<TextView android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginEnd="20dp" android:text="9+10" android:textAlignment="textEnd" android:textColor="@color/white" android:textSize="40dp" />

<TextView

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginEnd="20dp" android:text="=19" android:textAlignment="textEnd" android:textColor="@color/white" android:textSize="40dp" />

</LinearLayout>

<GridLayout android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:layout\_weight="1" android:columnCount="4" android:gravity="bottom" android:rowCount="4">

<Button

android:id="@+id/b9" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="@drawable/bg\_button" android:text="9" android:textColor="@color/white" android:textSize="25dp" />

<Button android:id="@+id/b8"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="@drawable/bg\_button" android:text="8" android:textColor="@color/white" android:textSize="25dp" />

<Button android:id="@+id/b7"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="@drawable/bg\_button" android:text="7" android:textColor="@color/white" android:textSize="25dp" />

<Button android:id="@+id/bmult"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="#F86605" android:text="x"

android:textColor="@color/white" android:textSize="18dp" />

<Button android:id="@+id/b6"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="@drawable/bg\_button" android:text="6" android:textColor="@color/white" android:textSize="25dp" />

<Button android:id="@+id/b5"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"

android:layout\_margin="10dp" android:background="@drawable/bg\_button" android:text="5" android:textColor="@color/white" android:textSize="25dp" />

<Button android:id="@+id/b4"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="@drawable/bg\_button" android:text="4" android:textColor="@color/white" android:textSize="25dp" />

<Button android:id="@+id/bdiv"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="#F86605" android:text="/" android:textColor="@color/white" android:textSize="25dp" />

<Button android:id="@+id/b3"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="@drawable/bg\_button" android:text="3" android:textColor="@color/white" android:textSize="25dp" />

<Button

android:id="@+id/b2" android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="@drawable/bg\_button" android:text="2" android:textColor="@color/white" android:textSize="25dp" />

<Button android:id="@+id/b1"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="@drawable/bg\_button" android:text="1" android:textColor="@color/white" android:textSize="25dp" />

<Button android:id="@+id/bminus"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="#F86605" android:text="-" android:textColor="@color/white" android:textSize="25dp" />

<Button android:id="@+id/b0"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="@drawable/bg\_button" android:text="0" android:textColor="@color/white"

android:textSize="25dp" />

<Button android:id="@+id/b."

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="@drawable/bg\_button" android:text="." android:textColor="@color/white" android:textSize="25dp" />

<Button android:id="@+id/bequal"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="@drawable/bg\_button" android:text="="

android:textColor="@color/white" android:textSize="25dp" />

<Button android:id="@+id/bplus"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_margin="10dp" android:background="#F86605" android:text="+" android:textColor="@color/white" android:textSize="25dp" />

</GridLayout>

</LinearLayout>

</LinearLayout>

## Java Code:

package com.example.grid\_layout;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

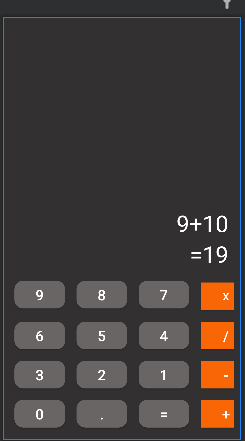
@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

}

}

## Output



**Program no: 08 Aim:**

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

## XML Code:

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:an[droid="ht](http://schemas.android.com/apk/res/android)tp://[schemas.](http://schemas.android.com/apk/res/android)an[droid.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:ap[p="htt](http://schemas.android.com/apk/res-auto)p:[//schem](http://schemas.android.com/apk/res-auto)a[s.android.com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:t[ools="htt](http://schemas.android.com/tools)p://[sch](http://schemas.android.com/tools)em[as.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:background="@color/white" tools:context=".MainActivity">

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:background="#29487D" android:gravity="center|top"

android:orientation="vertical">

<LinearLayout android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginTop="70dp" android:layout\_marginBottom="100dp" android:orientation="vertical">

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:fontFamily="@font/fb" android:text="facebook" android:textSize="36dp" android:padding="10dp" android:textColor="@color/white" />

</LinearLayout>

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:padding="15dp" android:orientation="vertical" android:layout\_margin="20dp">

<EditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:hint="Email or Phone" android:layout\_marginBottom="30dp" android:textColorHint="#594F4F" android:background="@drawable/bg\_box"/>

<EditText android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:layout\_marginBottom="30dp" android:background="@drawable/bg\_box"

android:hint="password" android:textColorHint="#594F4F"/>

<Button android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:text="Log In"

android:background="@color/design\_default\_color\_primary" android:textAllCaps="false"/>

</LinearLayout>

<LinearLayout android:layout\_width="match\_parent" android:layout\_height="wrap\_content" android:orientation="horizontal" android:layout\_marginTop="180dp" android:layout\_gravity="bottom" android:gravity="center">

<TextView

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:gravity="end" android:textStyle="bold" android:textColor="@color/white" android:layout\_marginRight="75dp" android:layout\_weight="50" android:text="SignUp for Facebook"/>

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:gravity="end" android:textColor="@color/white" android:layout\_marginEnd="50dp" android:layout\_weight="1" android:textStyle="bold" android:text="?"/>

</LinearLayout>

</LinearLayout>

</LinearLayout>

## Java code:

package com.example.facebook;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

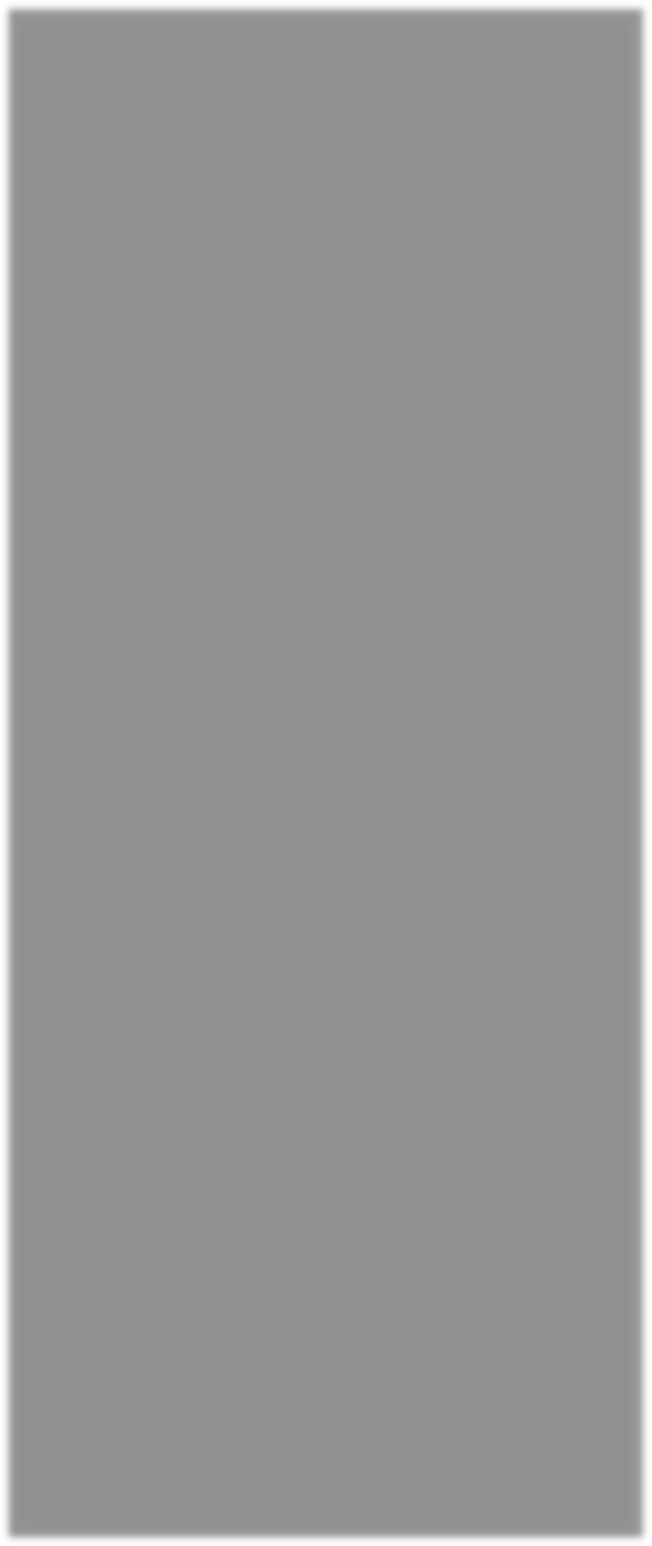
@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main); getSupportActionBar().hide();

}

}

## Output



**Program no: 09 Aim:**

Develop an application that toggles image using FrameLayout

## XML Code:

<?xml version="1.0" encoding="utf-8"?>

<FrameLayout xmlns:an[droid="ht](http://schemas.android.com/apk/res/android)tp://[schemas.](http://schemas.android.com/apk/res/android)an[droid.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:t[ools="htt](http://schemas.android.com/tools)p://[sch](http://schemas.android.com/tools)em[as.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:layout\_gravity="center" android:background="@color/teal\_700" tools:context=".MainActivity">

<ImageView android:id="@+id/image2"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:src="@drawable/image2" android:visibility="gone"/>

<ImageView android:id="@+id/image1"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_gravity="center" android:src="@drawable/image1"/>

</FrameLayout>

## Java code:

package com.example.frame\_layout;

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 img1,img2;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

img1 =findViewById(R.id.image1); img2 =findViewById(R.id.image2); img1.setOnClickListener(this); img2.setOnClickListener(this);

}

public void onClick(View v)

{

int id=v.getId(); switch (id){

case R.id.image1: img1.setVisibility(View.GONE); img2.setVisibility(View.VISIBLE); break;

case R.id.image2:

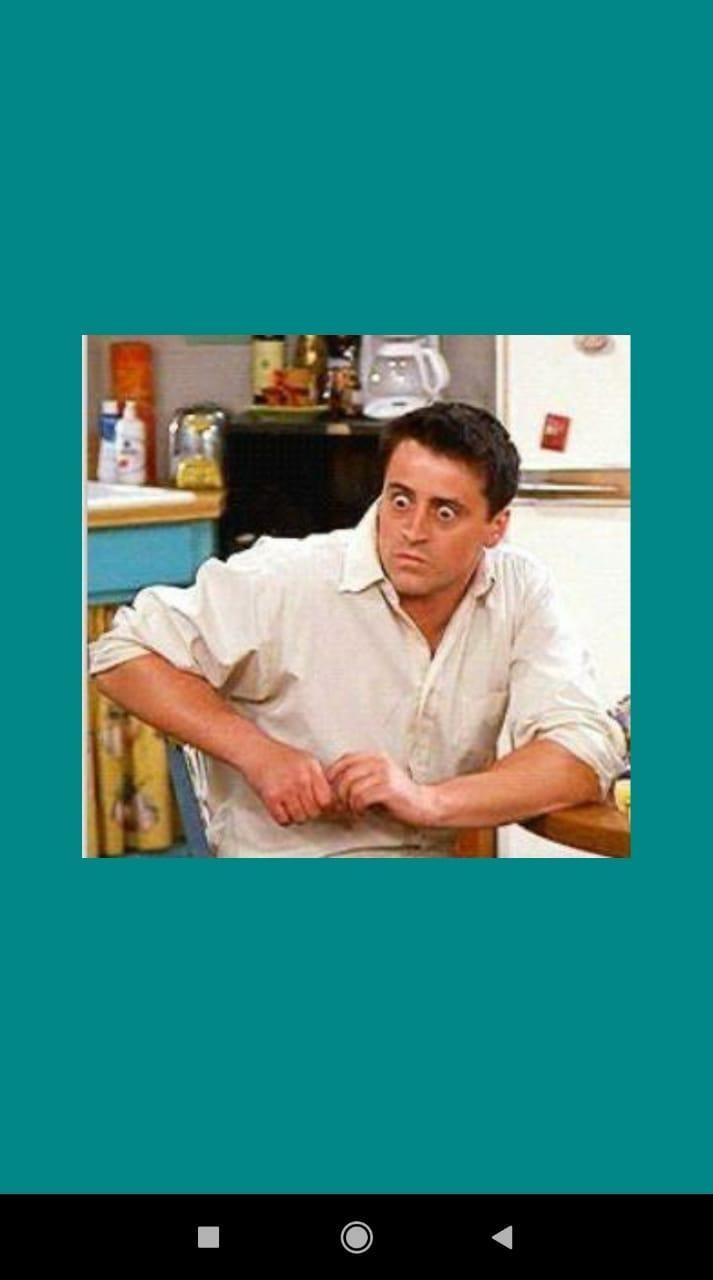
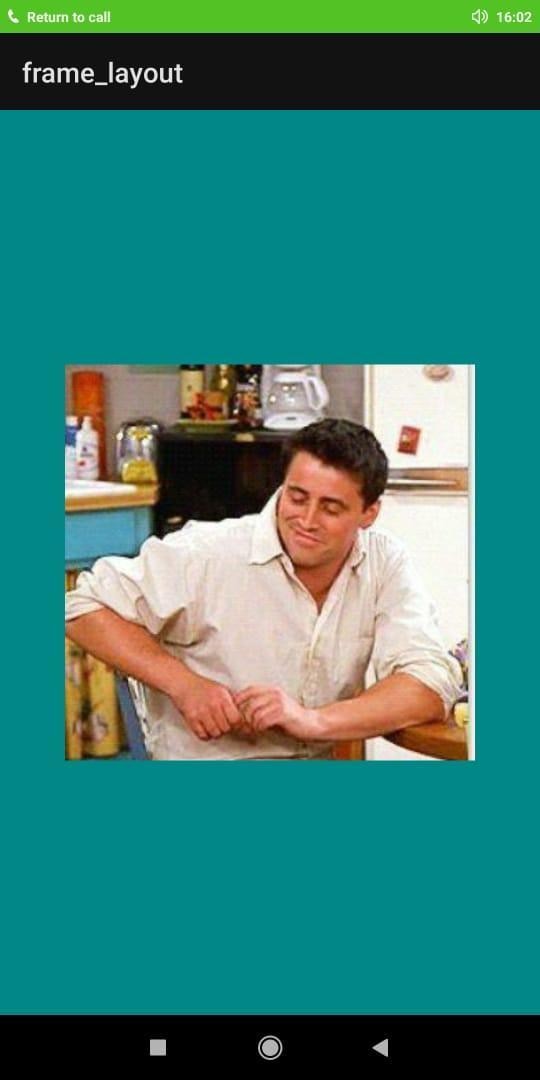
img1.setVisibility(View.VISIBLE); img2.setVisibility(View.GONE); break;

}

}

}

## Output:



**Program no: 10 Aim:**

Implement Adapters and perform exception handling

## XML Code:

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:an[droid="ht](http://schemas.android.com/apk/res/android)tp://[schemas.](http://schemas.android.com/apk/res/android)an[droid.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:ap[p="htt](http://schemas.android.com/apk/res-auto)p:[//sch](http://schemas.android.com/apk/res-auto)e[mas.android.com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:t[ools="htt](http://schemas.android.com/tools)p://[sch](http://schemas.android.com/tools)em[as.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:gravity="center"

tools:context=".exception">

<TextView android:id="@+id/textView"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="TextView" />

</LinearLayout>

## Java Code:

package com.example.exception;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle; import android.widget.TextView; import android.widget.Toast;

public class exception extends AppCompatActivity { TextView textView;

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_exception);

try {

textView.setText("Hello there...");

} catch (Exception e) { Toast.makeText(this, e.getMessage(),

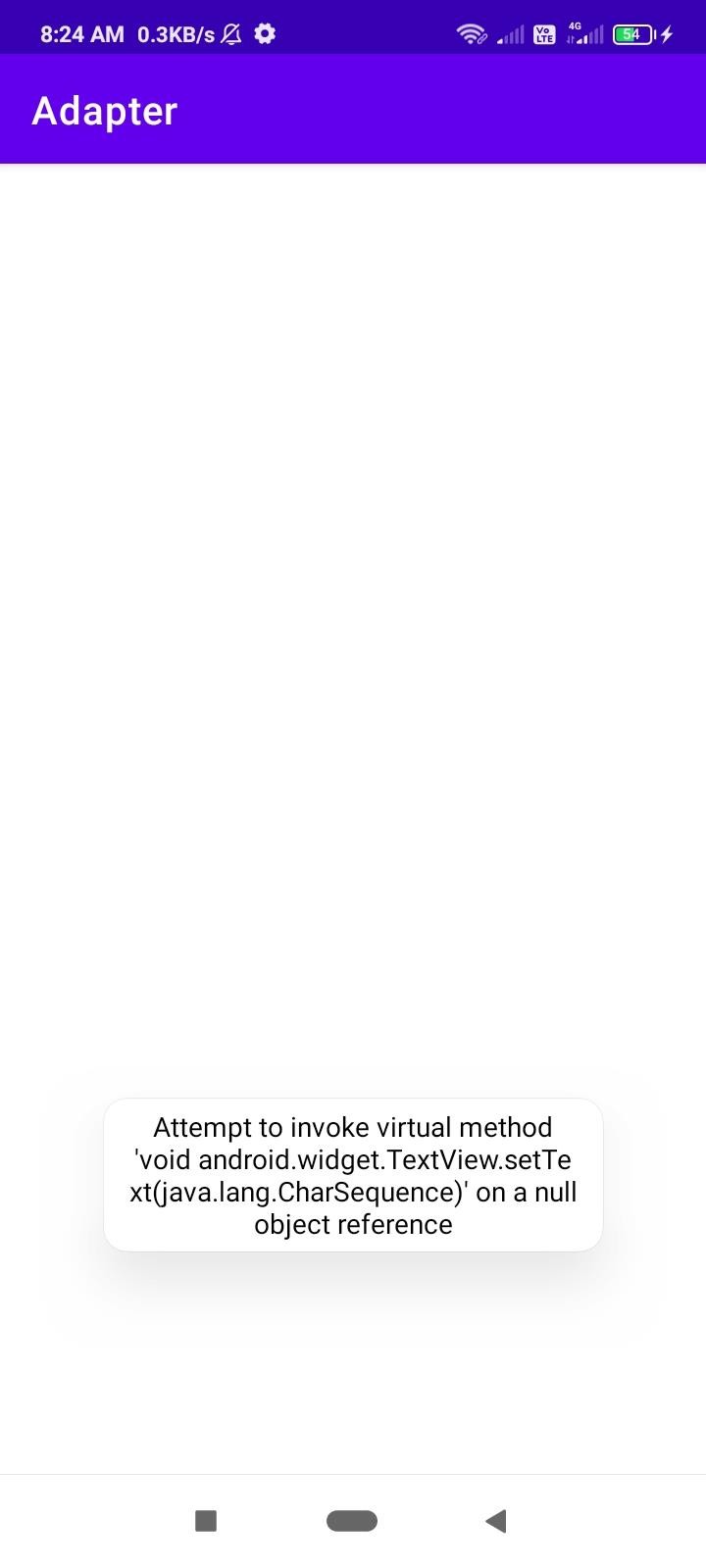
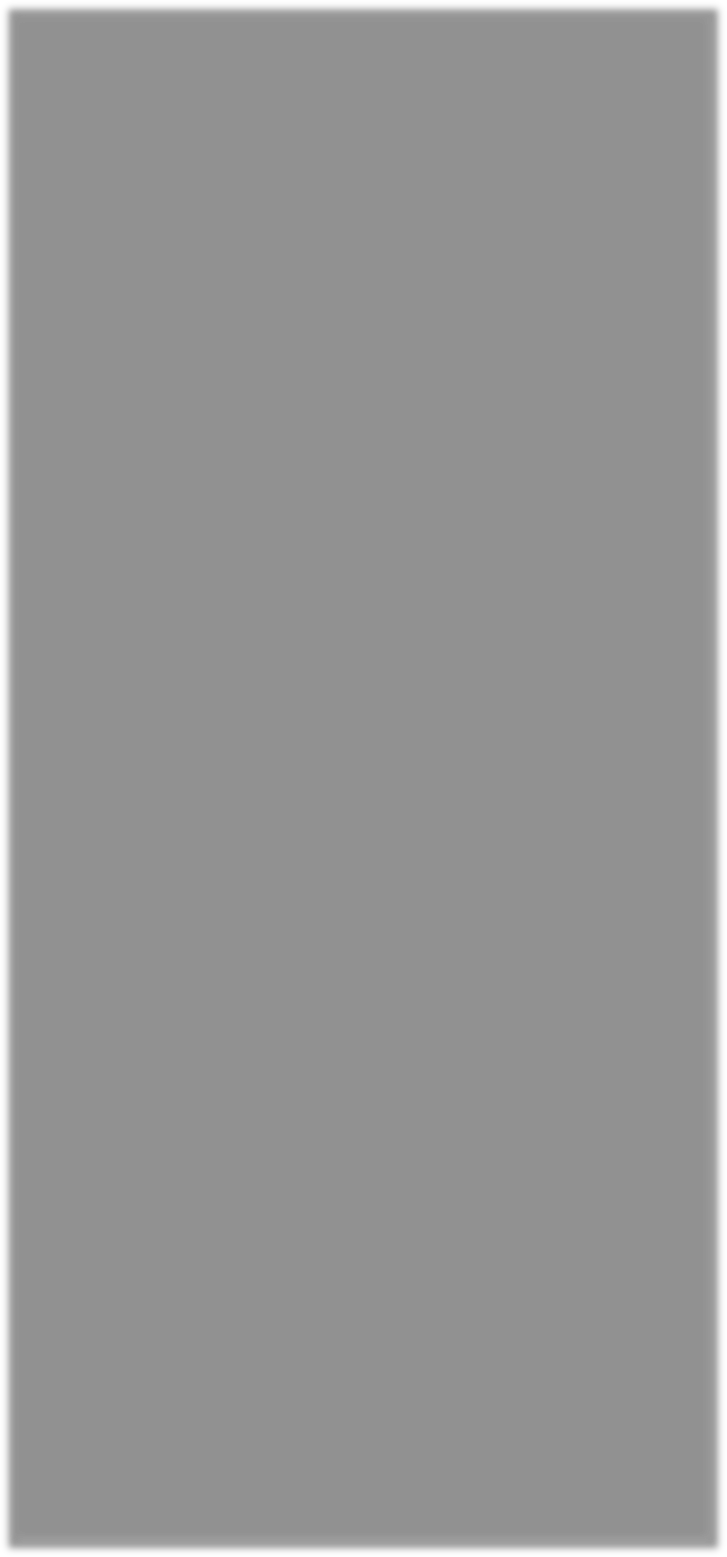
Toast.LENGTH\_SHORT).show();

}

}

}

## Output



**Program no: 11 Aim:**

Implement Intent to navigate between multiple activities

## XML Code:

**Activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:an[droid="ht](http://schemas.android.com/apk/res/android)tp://[schemas.](http://schemas.android.com/apk/res/android)an[droid.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:t[ools="htt](http://schemas.android.com/tools)p://sc[hemas.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:orientation="vertical" tools:context=".MainActivity" android:background="#4CAF50" android:gravity="center">

<TextView android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" android:text="Page1" android:textColor="@color/black" android:textSize="50dp" />

<Button android:id="@+id/page1"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Go to page 2" />

</LinearLayout>

## Activity\_main2.xml

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:an[droid="ht](http://schemas.android.com/apk/res/android)tp://[schemas.](http://schemas.android.com/apk/res/android)an[droid.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:ap[p="htt](http://schemas.android.com/apk/res-auto)p:[//schemas.android](http://schemas.android.com/apk/res-auto).[com/apk/res-auto"](http://schemas.android.com/apk/res-auto) xmlns:t[ools="htt](http://schemas.android.com/tools)p://[sch](http://schemas.android.com/tools)em[as.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:background="#FFEB3B"

android:gravity="center" android:orientation="vertical" tools:context=".MainActivity2">

<TextView android:id="@+id/textView"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Page2" android:textColor="@color/black" android:textSize="50dp" />

<Button android:id="@+id/page2"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Go to page 1" />

</LinearLayout>

## java Code:

**Main Activiy.java**

package com.example.adaptor;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent; import android.os.Bundle; import android.view.View; import android.widget.Button;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

Button page1=findViewById(R.id.page1); page1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent i1=new Intent(MainActivity.this,MainActivity2.class); startActivity(i1);

}

});

}

}

## Main Activiy2.java

package com.example.adaptor;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent; import android.os.Bundle; import android.view.View; import android.widget.Button;

public class MainActivity2 extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main2);

Button page2 = findViewById(R.id.page2); page2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent i2 = new Intent(MainActivity2.this, MainActivity.class); startActivity(i2);

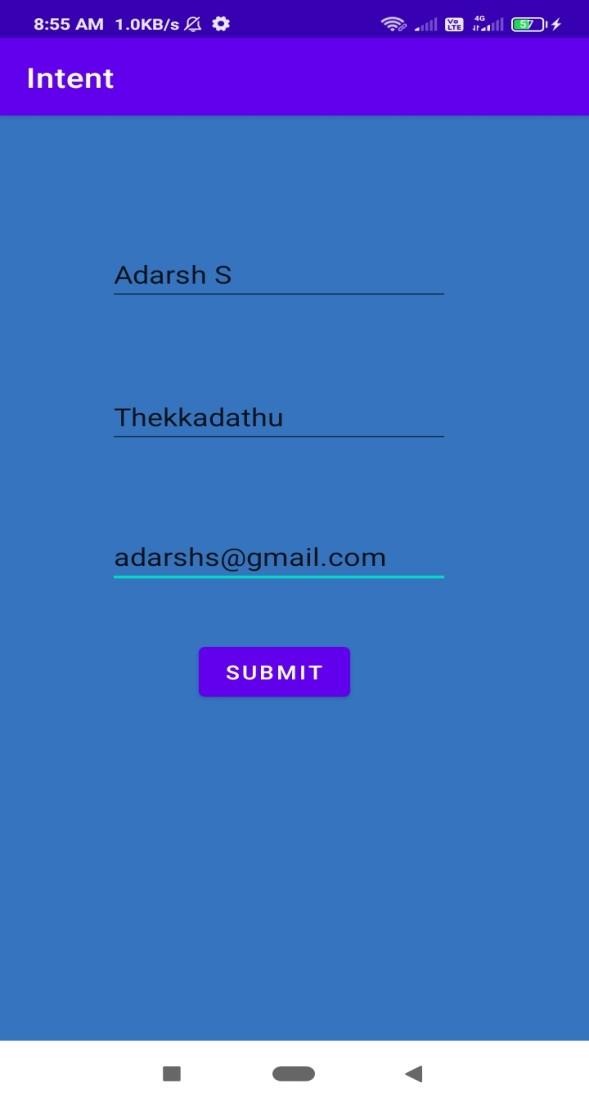
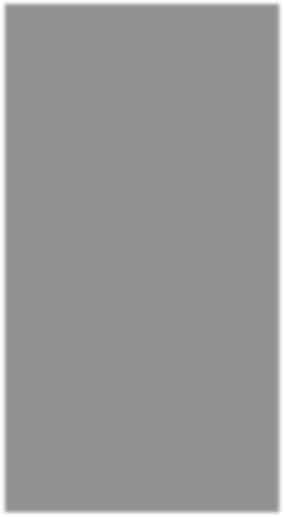
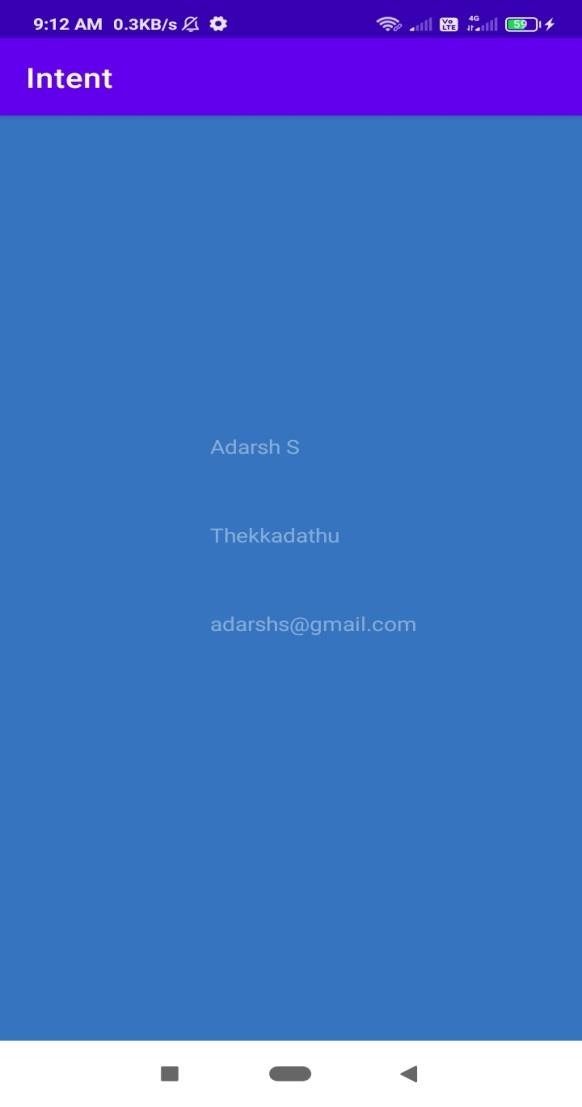
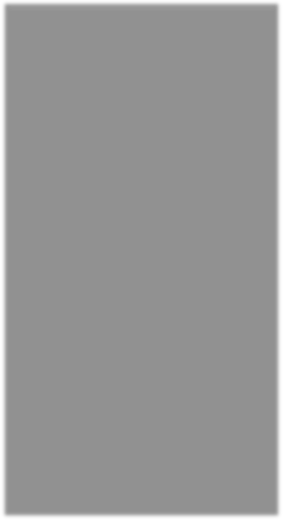
}

});

}

}

## Output



**Program no: 12**

**Aim:** Develop an application that works with implicit intents

**XML Code:**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android=["http://schemas](http://schemas.android.com/apk/res/android).[android.com/apk/res/android"](http://schemas.android.com/apk/res/android)

xmlns:tools=["http://s](http://schemas.android.com/tools)c[hemas.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:orientation="vertical" tools:context=".MainActivity" android:background="#4CAF50" android:gravity="center">

<TextView android:id="@+id/textView"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content"

android:text="Explicit Intent" android:textColor="@color/black" android:textSize="50dp" />

<Button android:id="@+id/page1"

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Go to Gooogle" />

</LinearLayout>

# Java Code:

package com.example.adaptor;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent; import android.net.Uri; import android.os.Bundle;

import android.view.View; import android.widget.Button;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

Button page1=findViewById(R.id.page1); page1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent i1=new Intent(Intent.ACTION\_VIEW, Uri.parse("https://[www.google.com/"));](http://www.google.com/)

startActivity(i1);

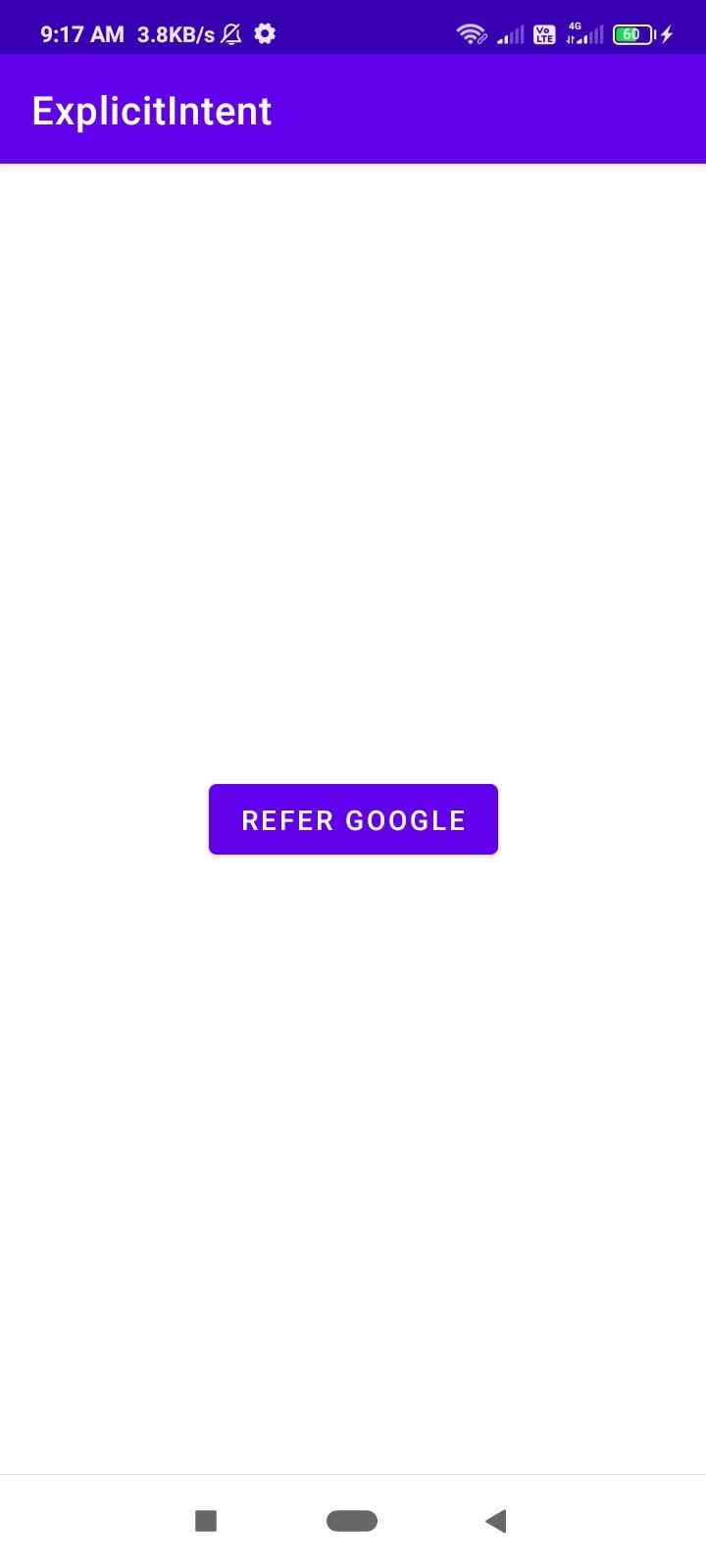
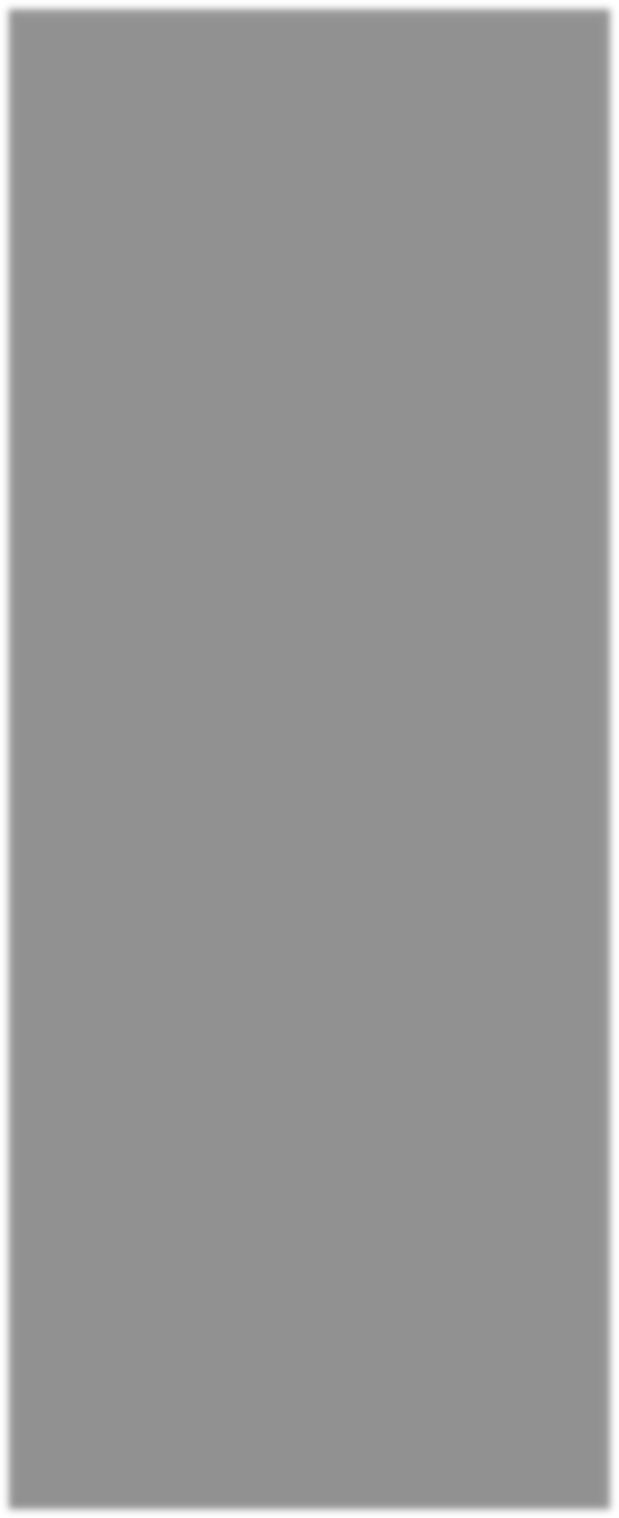
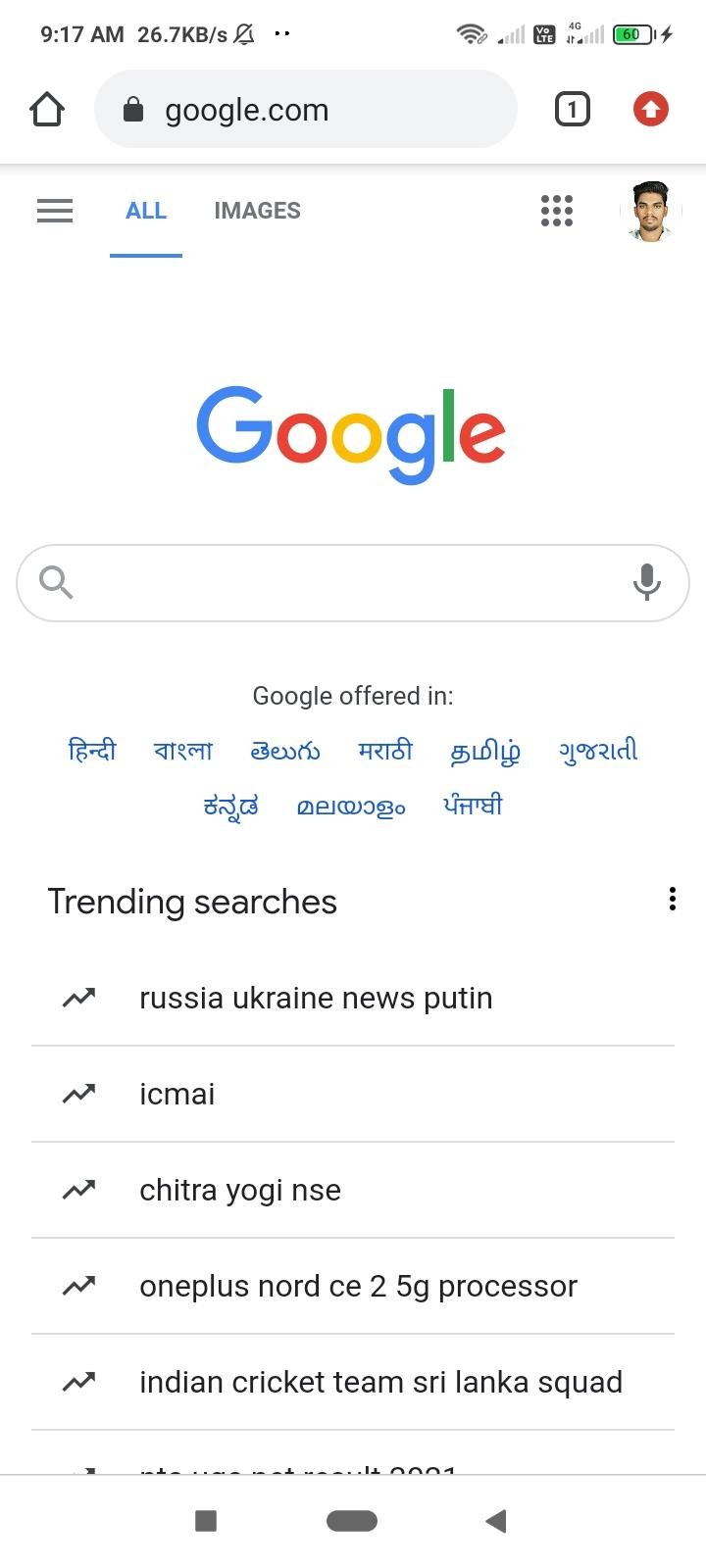
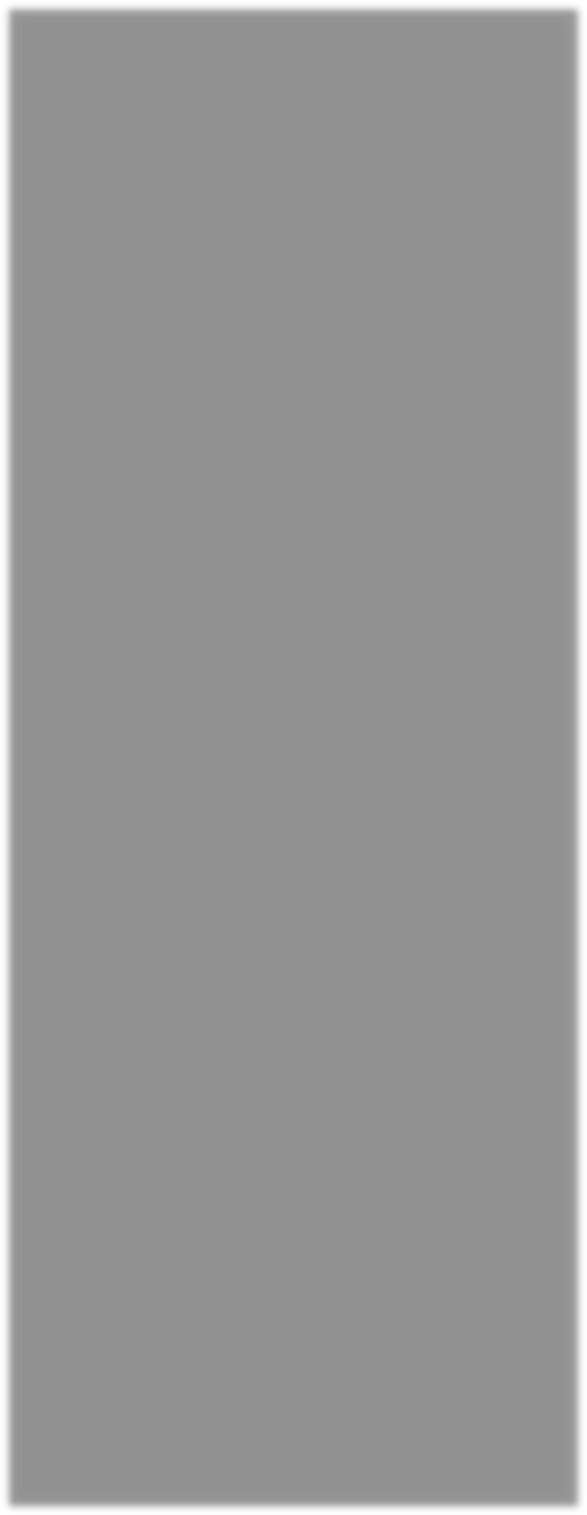
}

});

}

}

# Output:



## Program no: 13

**Aim:** Implement Options Menu to navigate to activities

## XML Code:

<?xml version="1.0" encoding="utf-8"?>

<androidx.constraintlayout.widget.ConstraintLayout xmlns:an[droid="ht](http://schemas.android.com/apk/res/android)tp://[schemas.](http://schemas.android.com/apk/res/android)an[droid.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:t[ools="htt](http://schemas.android.com/tools)p://[sch](http://schemas.android.com/tools)em[as.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:orientation="vertical" tools:context=".MainActivity">

</androidx.constraintlayout.widget.ConstraintLayout>

## Menu.xml

<?xml version="1.0" encoding="utf-8"?>

<menu xmlns:an[droid="ht](http://schemas.android.com/apk/res/android)tp://[schemas.](http://schemas.android.com/apk/res/android)an[droid.com/apk/res/android](http://schemas.android.com/apk/res/android)">

<item

android:title="Home page" android:id="@+id/op1"/>

<item

android:title="Login Page" android:id="@+id/op2"/>

<item

android:title="Registration Page" android:id="@+id/op3"/>

</menu>

## JavaCode:

package com.example.adaptor;

import android.os.Bundle; import android.view.Menu;

import android.view.MenuInflater; import android.view.MenuItem;

import android.widget.Toast;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

}

@Override

public boolean onCreateOptionsMenu(Menu menu) { MenuInflater menuInflater = getMenuInflater(); menuInflater.inflate(R.menu.example\_menu, menu); return true;

}

@Override

public boolean onOptionsItemSelected(@NonNull MenuItem item) { switch (item.getItemId()){

case R.id.op1:

Toast.makeText(this, "Home page selected", Toast.LENGTH\_SHORT).show();

break;

case R.id.op2:

Toast.makeText(this, "Login page selected", Toast.LENGTH\_SHORT).show();

break;

case R.id.op3:

Toast.makeText(this, "Registration page selected", Toast.LENGTH\_SHORT).show();

break;

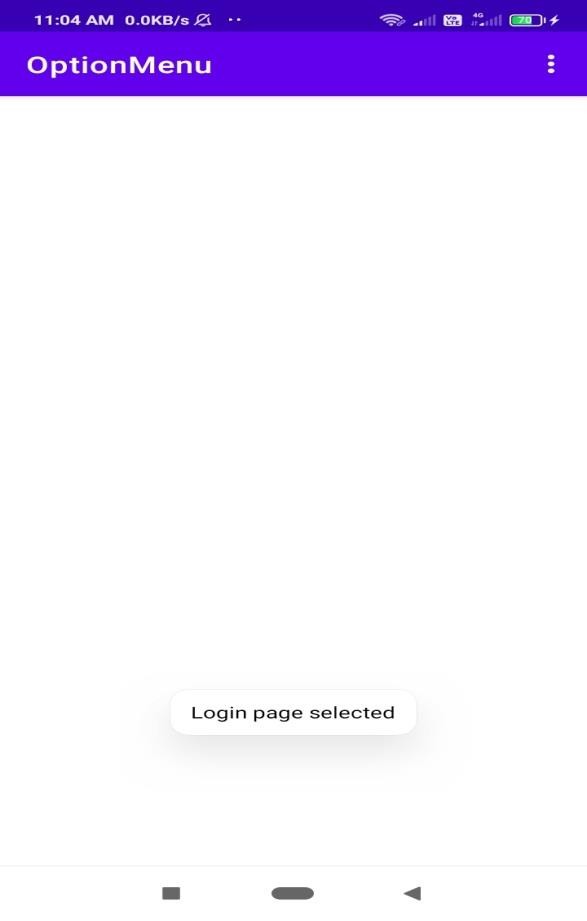
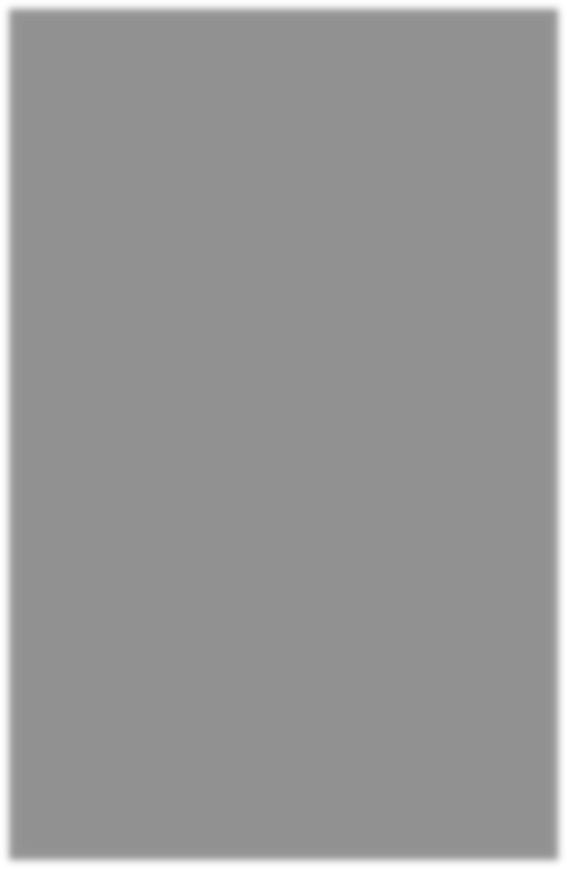
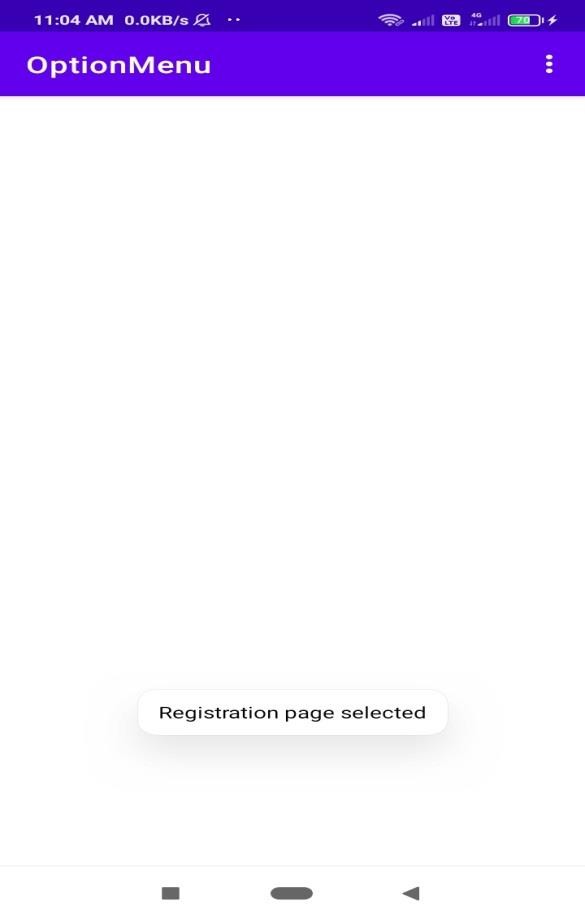
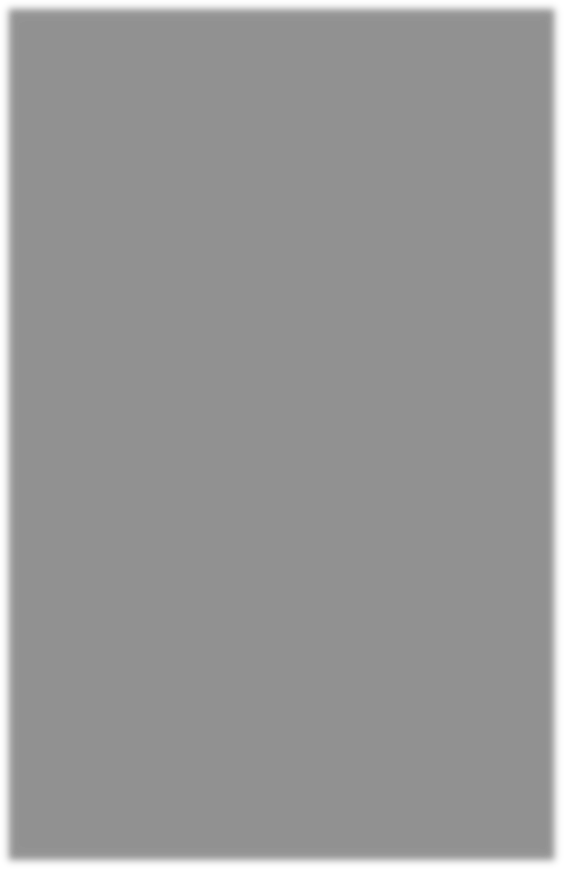
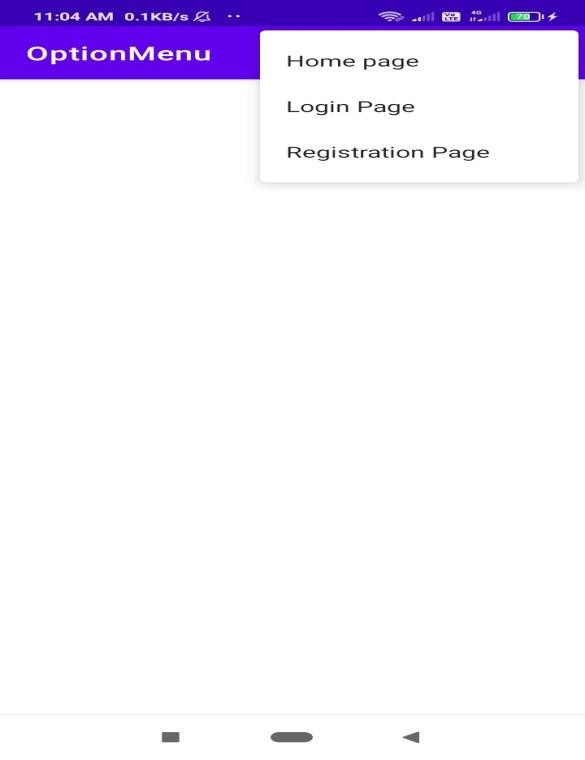
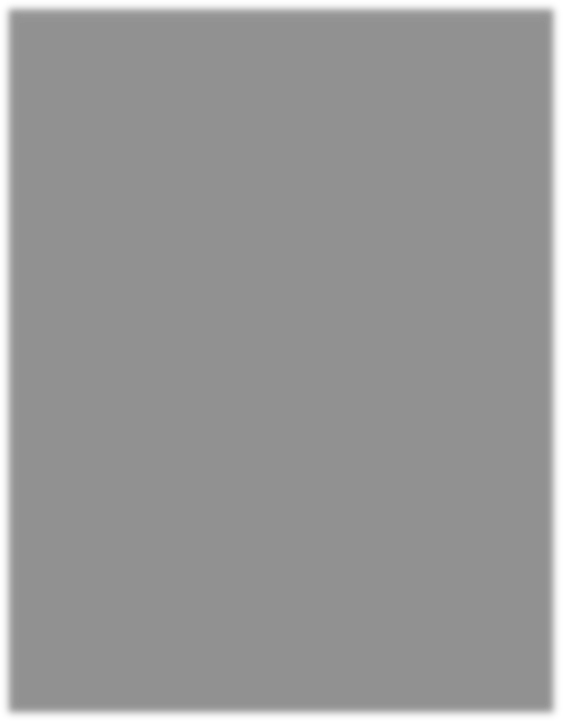
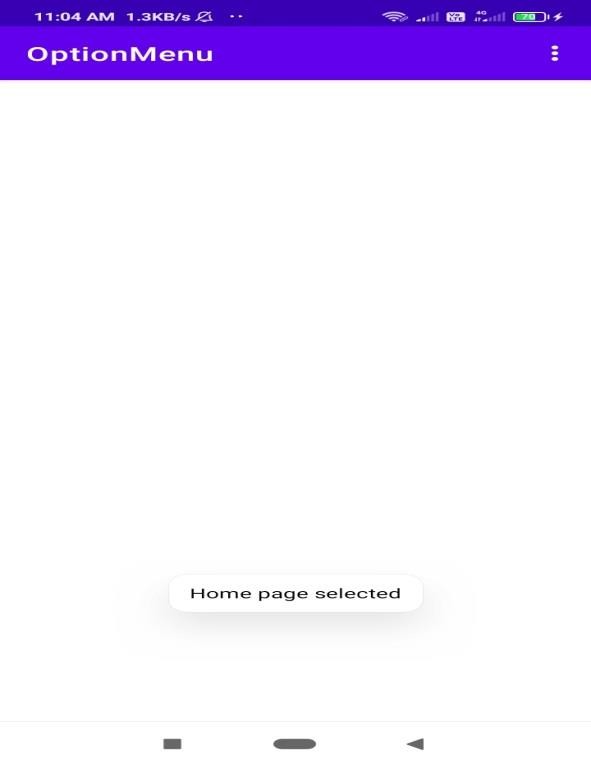
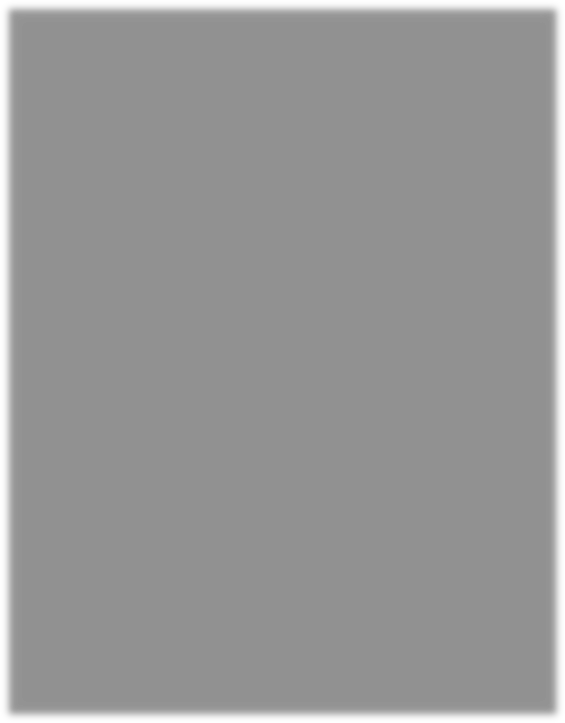
}

return super.onOptionsItemSelected(item);

}

}

## Output:



**Program no: 14**

**Aim:** Develop an application that uses ArrayAdapter with ListView

## XML Code:

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:an[droid="ht](http://schemas.android.com/apk/res/android)tp://sc[hemas.android.com/apk/res/android](http://schemas.android.com/apk/res/android)"

xmlns:t[ools="htt](http://schemas.android.com/tools)p://[sch](http://schemas.android.com/tools)em[as.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent" android:orientation="vertical" tools:context=".MainActivity">

<ListView android:id="@+id/mobile\_list"

android:layout\_width="match\_parent" android:layout\_height="wrap\_content" >

</ListView>

</LinearLayout>

## Java Code:

package com.example.adaptor;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent; import android.net.Uri;

import android.os.Bundle; import android.view.View;

import android.widget.AdapterView; import android.widget.ArrayAdapter; import android.widget.Button; import android.widget.ListView; import android.widget.TextView; import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements AdapterView.OnItemClickListener {

ListView l;

String[] days = {"Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday",

"Saturday"};

@Override

protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity\_main);

l = findViewById(R.id.mobile\_list);

ArrayAdapter<String> adapter = new ArrayAdapter<String>(this,

androidx.appcompat.R.layout.support\_simple\_spinner\_dropdown\_ite m, days);

l.setAdapter(adapter); l.setOnItemClickListener(this);

}

@Override

public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {

TextView temp = (TextView) view;

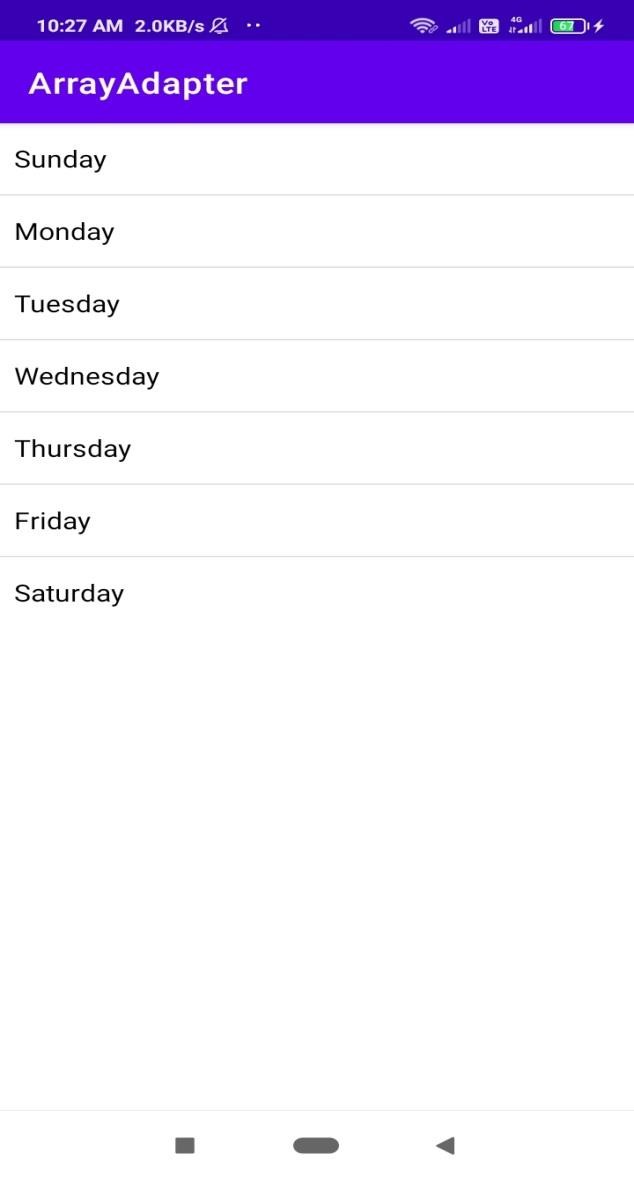
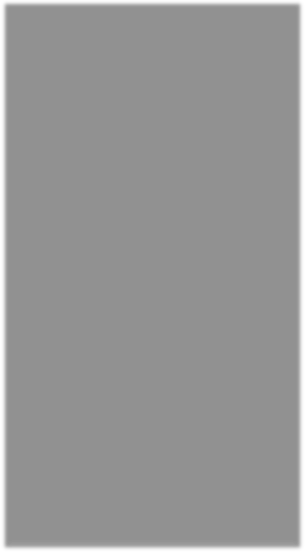
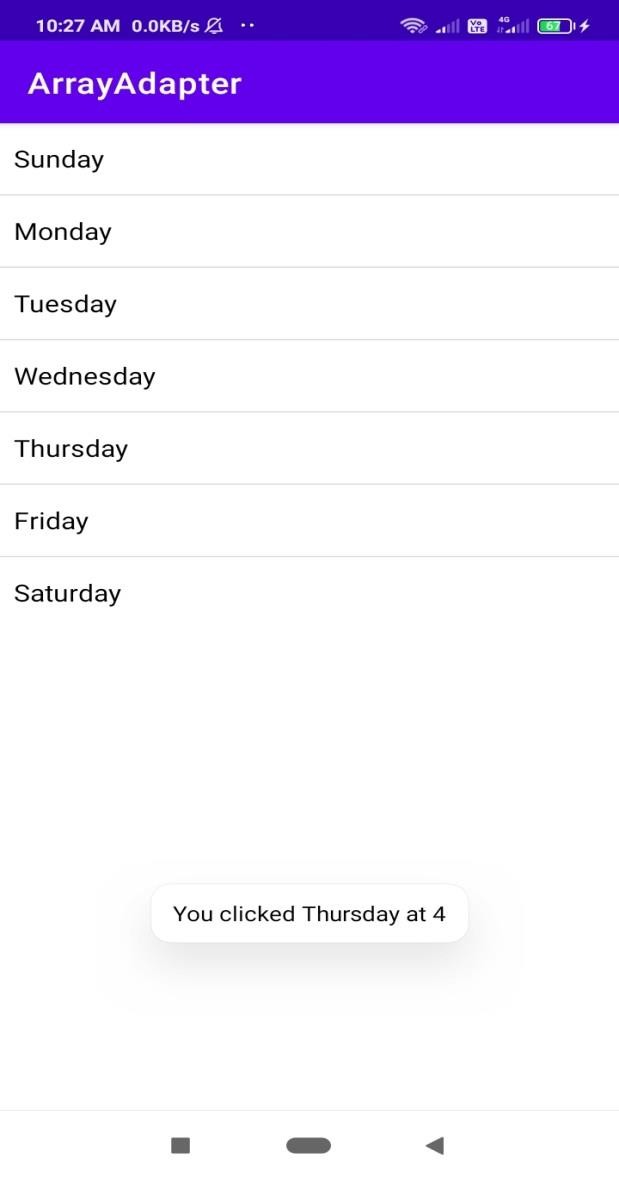
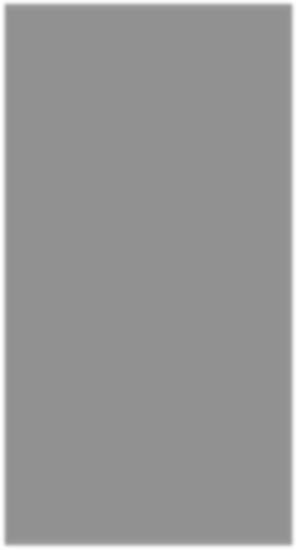
Toast.makeText(this, "You clicked " + temp.getText() + " at " + i,

Toast.LENGTH\_LONG).show();

}

}

## Output:



**Program no: 15**

**Aim:** Develop an application that use GridView with images and display Alert box on selection

**XML Code:**

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".MainActivity" >

<GridView

android:numColumns="auto\_fit"

android:gravity="center"

android:columnWidth="100dp"

android:stretchMode="columnWidth"

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:id="@+id/grid"

/>

</LinearLayout>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:padding="5dp" >

<ImageView

android:id="@+id/grid\_image"

android:layout\_width="50dp"

android:layout\_height="50dp">

</ImageView>

<TextView

android:id="@+id/grid\_text"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="15dp"

android:textSize="9sp" >

</TextView>

</LinearLayout>

**Java Code:**

package com.example.gridview\_image\_text\_example;

import android.content.Context;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.BaseAdapter;

import android.widget.ImageView;

import android.widget.TextView;

public class CustomGrid extends BaseAdapter{

private Context mContext;

private final String[] web;

private final int[] Imageid;

public CustomGrid(Context c,String[] web,int[] Imageid ) {

mContext = c;

this.Imageid = Imageid;

this.web = web;

}

@Override

public int getCount() {

// TODO Auto-generated method stub

return web.length;

}

@Override

public Object getItem(int position) {

// TODO Auto-generated method stub

return null;

}

@Override

public long getItemId(int position) {

// TODO Auto-generated method stub

return 0;

}

@Override

public View getView(int position, View convertView, ViewGroup parent) {

// TODO Auto-generated method stub

View grid;

LayoutInflater inflater = (LayoutInflater) mContext

.getSystemService(Context.LAYOUT\_INFLATER\_SERVICE);

if (convertView == null) {

grid = new View(mContext);

grid = inflater.inflate(R.layout.grid\_single, null);

TextView textView = (TextView) grid.findViewById(R.id.grid\_text);

ImageView imageView = (ImageView)grid.findViewById(R.id.grid\_image);

textView.setText(web[position]);

imageView.setImageResource(Imageid[position]);

} else {

grid = (View) convertView;

}

return grid;

}

}

package com.example.gridview\_image\_text\_example;

import android.os.Bundle;

import android.app.Activity;

import android.view.View;

import android.widget.AdapterView;

import android.widget.GridView;

import android.widget.Toast;

public class MainActivity extends Activity {

GridView grid;

String[] web = {

"Google",

"Github",

"Instagram",

"Facebook",

"Twitter",

"WordPress",

"Youtube",

"Whatsapp",

"Blogger"

} ;

int[] imageId = {

R.drawable.image1,

R.drawable.image2,

R.drawable.image3,

R.drawable.image4,

R.drawable.image5,

R.drawable.image6,

R.drawable.image7,

R.drawable.image8,

R.drawable.image9,

};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

CustomGrid adapter = new CustomGrid(MainActivity.this, web, imageId);

grid=(GridView)findViewById(R.id.grid);

grid.setAdapter(adapter);

grid.setOnItemClickListener(new AdapterView.OnItemClickListener() {

@Override

public void onItemClick(AdapterView<?> parent, View view,

int position, long id) {

Toast.makeText(MainActivity.this, "You Clicked at " +web[+ position], Toast.LENGTH\_SHORT).show();

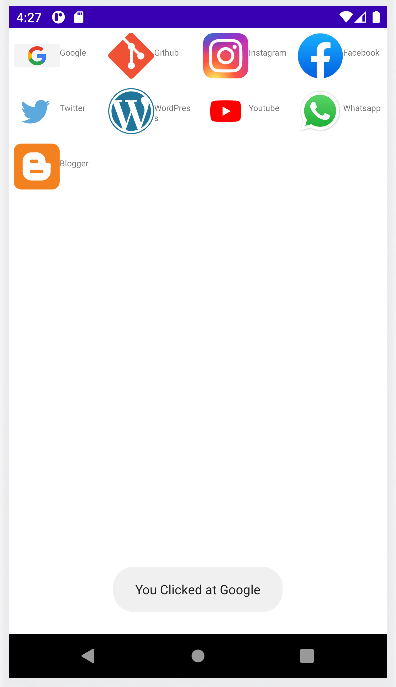
}

});

}

}

**Output:**

****

**Program no:16**

**Aim:** Develop an application that implements Spinner component and perform event handling

**XML Code:**

<?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">

<Spinner

android:id="@+id/spinner"

android:layout\_height="50dp"

android:layout\_width="160dp"

android:layout\_marginEnd="10dp"

android:layout\_marginStart="10dp"

android:layout\_marginBottom="10dp"

android:layout\_marginTop="10dp"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"/>

</androidx.constraintlayout.widget.ConstraintLayout>

**Java Code:**

package com.example.spinner;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.Spinner;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity implements

AdapterView.OnItemSelectedListener {

String[] country = { "India", "USA", "China", "Japan", "Other"};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

//Getting the instance of Spinner and applying OnItemSelectedListener on it

Spinner spin = (Spinner) findViewById(R.id.spinner);

spin.setOnItemSelectedListener(this);

//Creating the ArrayAdapter instance having the country list

ArrayAdapter aa = new ArrayAdapter(this,android.R.layout.simple\_spinner\_item,country);

aa.setDropDownViewResource(android.R.layout.simple\_spinner\_dropdown\_item);

//Setting the ArrayAdapter data on the Spinner

spin.setAdapter(aa);

}

//Performing action onItemSelected and onNothing selected

@Override

public void onItemSelected(AdapterView<?> arg0, View arg1, int position, long id) {

Toast.makeText(getApplicationContext(),country[position] , Toast.LENGTH\_LONG).show();

}

@Override

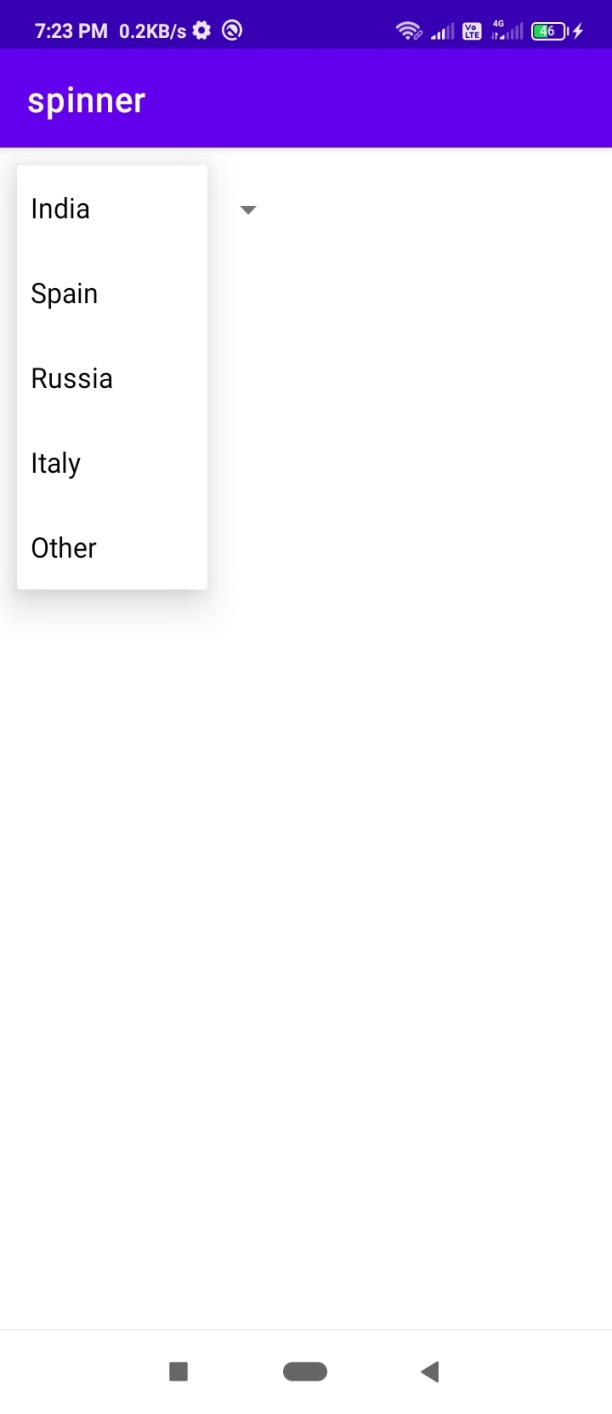
public void onNothingSelected(AdapterView<?> arg0) {

// TODO Auto-generated method stub

}

}

**Output:**

****

**Program no:17**

**Aim:** Apply themes via code and manifest file

**XML Code:**

<?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">

<EditText

android:id="@+id/editTextTextPersonName"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:ems="10"

android:inputType="textPersonName"

android:text="Name"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

tools:layout\_editor\_absoluteX="100dp" />

</androidx.constraintlayout.widget.ConstraintLayout>

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.themes">

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/Theme.newstyle">

<activity

android:name=".MainActivity"

android:exported="true">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

<?xml version="1.0" encoding="utf-8"?>

<resources>

<color name="teal">#FF018786</color>

<color name="black">#FF000000</color>

<color name="yellow">#EC971B</color>

<color name="red">#F80F0F</color>

</resources>

<resources xmlns:tools="http://schemas.android.com/tools">

<!-- Base application theme. -->

<style name="Theme.newstyle" parent="Theme.MaterialComponents.DayNight.DarkActionBar">

<item name="colorPrimary">@color/black</item>

<item name="colorPrimaryDark">@color/yellow</item>

<item name="colorAccent">@color/teal</item>

<item name="android:textColorPrimary">@color/red</item>

</style>

</resources>

**Java Code:**

package com.example.themes;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

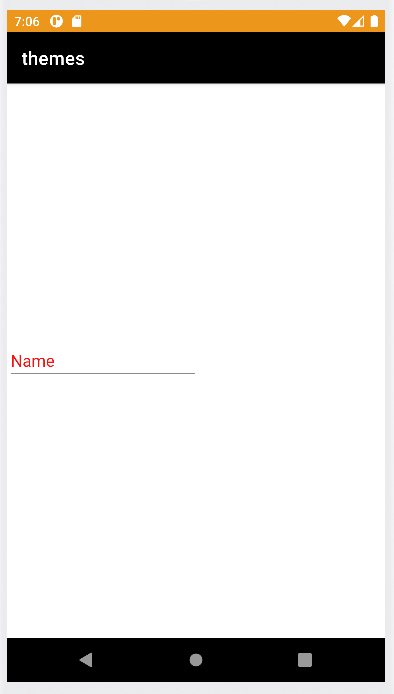
super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

}

**Output:**

****

**Program no:18**

**Aim:** Develop application using Fragments

**XML Code:**

<?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"

tools:context=".MainActivity">

<RelativeLayout

android:layout\_width="match\_parent"

android:layout\_height="0dp"

android:layout\_weight="1">

<Button

android:id="@+id/b1"

android:layout\_width="160dp"

android:layout\_height="50dp"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="30dp"

android:layout\_marginBottom="30dp"

android:backgroundTint="#2196F3"

android:text="Fragment1" />

<Button

android:id="@+id/b2"

android:layout\_width="160dp"

android:layout\_height="50dp"

android:layout\_alignParentRight="true"

android:layout\_alignParentBottom="true"

android:layout\_marginStart="30dp"

android:layout\_marginBottom="30dp"

android:backgroundTint="#FFC107"

android:text="Fragment2" />

</RelativeLayout>

<FrameLayout

android:id="@+id/frameLayout"

android:layout\_width="match\_parent”

android:layout\_height="0dp"

android:layout\_weight="4"

android:background="@color/purple\_200"/>

</LinearLayout>

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:background="@color/teal\_200"

tools:context=".Fragment1">

<!-- TODO: Update blank fragment layout -->

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerInParent="true"

android:background="#FFEB3B"

android:text="Fragment1"

android:textSize="30dp" />

</RelativeLayout>

<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:background="#FFEB3B"

tools:context=".Fragment2">

<!-- TODO: Update blank fragment layout -->

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_centerInParent="true"

android:background="#FAA3C1"

android:text="Fragment2"

android:textSize="30dp" />

</RelativeLayout>

**Java Code:**

package com.example.fragment;

import androidx.appcompat.app.AppCompatActivity;

import androidx.fragment.app.Fragment;

import androidx.fragment.app.FragmentManager;

import androidx.fragment.app.FragmentTransaction;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

public class MainActivity extends AppCompatActivity {

Button b1,b2;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b1=findViewById(R.id.b1);

b2=findViewById(R.id.b2);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

replaceFragment(new Fragment1());

}

});

b2.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

replaceFragment(new Fragment2());

}

});

}

private void replaceFragment(Fragment fragment) {

FragmentManager fragmentManager=getSupportFragmentManager();

FragmentTransaction fragmentTransaction=fragmentManager.beginTransaction();

fragmentTransaction.replace(R.id.frameLayout,fragment);

fragmentTransaction.commit();

}

}

package com.example.fragment;

import android.os.Bundle;

import androidx.fragment.app.Fragment;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

public class Fragment1 extends Fragment {

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

// Inflate the layout for this fragment

return inflater.inflate(R.layout.fragment\_1, container, false);

}

}

package com.example.fragment;

import android.os.Bundle;

import androidx.fragment.app.Fragment;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

public class Fragment2 extends Fragment {

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

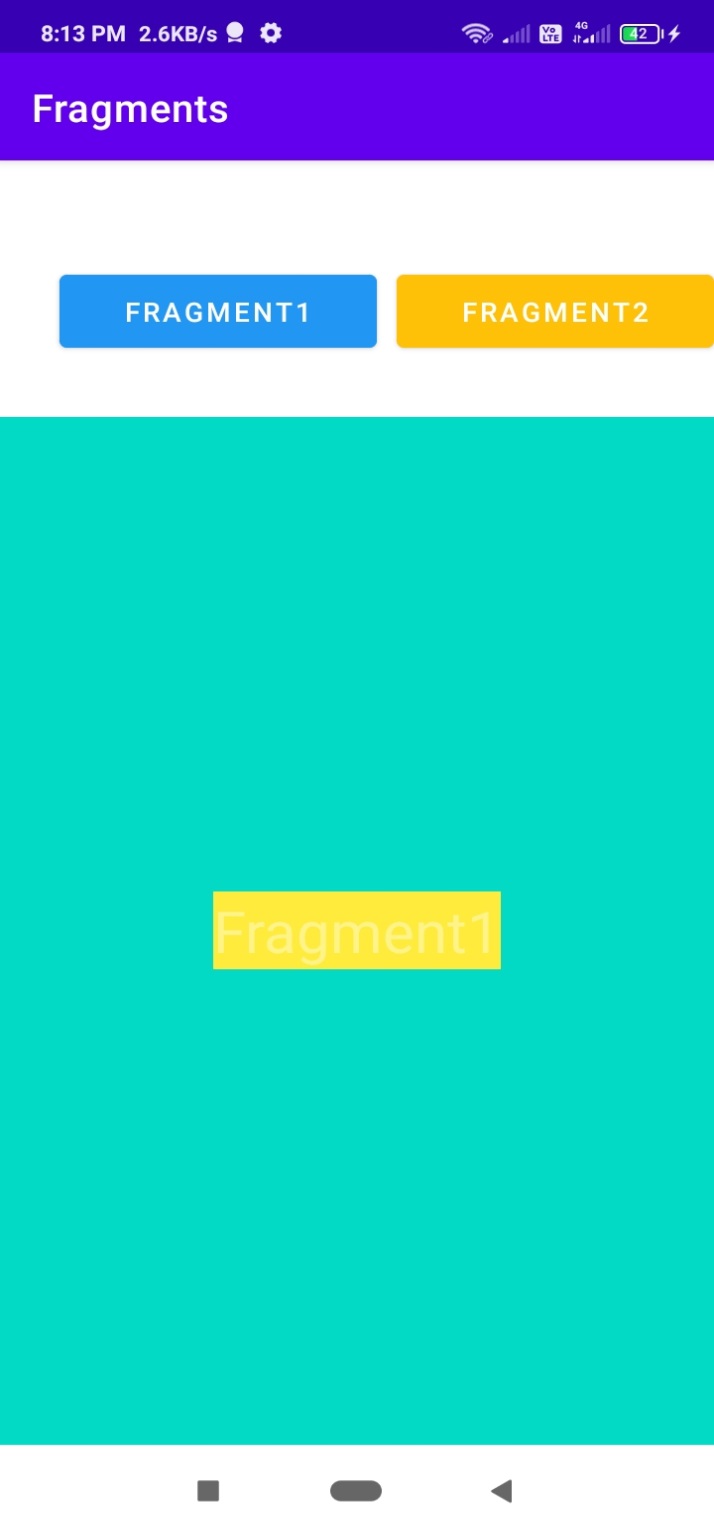
// Inflate the layout for this fragment

return inflater.inflate(R.layout.fragment\_2, container, false);

}

}

**Output:**

****

**Program no:19**

**Aim:** Implement Navigation drawer

**XML Code:**

<?xml version="1.0" encoding="utf-8"?>

<androidx.drawerlayout.widget.DrawerLayout

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"

android:id="@+id/drawer">

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:text="Welcome"

android:textSize="30dp">

</TextView>

</LinearLayout>

<com.google.android.material.navigation.NavigationView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

app:menu="@menu/menu"

android:id="@+id/navigation\_view"

android:layout\_gravity="start">

</com.google.android.material.navigation.NavigationView>

</androidx.drawerlayout.widget.DrawerLayout>

<?xml version="1.0" encoding="utf-8"?>

<menu xmlns:android="http://schemas.android.com/apk/res/android">

<item

android:id="@+id/account"

android:title="My account"/>

<item

android:id="@+id/profile"

android:title="My profile"/>

<item

android:id="@+id/logout"

android:title="log out"/>

</menu>

**Java Code:**

package com.example.navigation;

import androidx.annotation.NonNull;

import androidx.appcompat.app.ActionBarDrawerToggle;

import androidx.appcompat.app.AppCompatActivity;

import androidx.drawerlayout.widget.DrawerLayout;

import android.os.Bundle;

import android.view.MenuItem;

import android.widget.Toast;

import com.google.android.material.navigation.NavigationView;

public class MainActivity extends AppCompatActivity implements

NavigationView.OnNavigationItemSelectedListener {

public DrawerLayout drawerLayout;

public ActionBarDrawerToggle actionBarDrawerToggle;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

drawerLayout = findViewById(R.id.drawer);

actionBarDrawerToggle = new ActionBarDrawerToggle(this,drawerLayout, R.string.nav\_open, R.string.nav\_close);

drawerLayout.addDrawerListener(actionBarDrawerToggle);

actionBarDrawerToggle.syncState();

getSupportActionBar().setDisplayHomeAsUpEnabled(true);

NavigationView navigationView = findViewById(R.id.navigation\_view);

navigationView.setNavigationItemSelectedListener(this);

}

@Override

public boolean onOptionsItemSelected(@NonNull MenuItem item) {

if (actionBarDrawerToggle.onOptionsItemSelected(item)){

return true;

}

return super.onOptionsItemSelected(item);

}

@Override

public boolean onNavigationItemSelected(@NonNull MenuItem item) {

int id=item.getItemId();

if(id == R.id.account){

Toast.makeText(this, "Home Page", Toast.LENGTH\_SHORT).show();

}

if(id == R.id.profile){

Toast.makeText(this, "Settings Page",

Toast.LENGTH\_SHORT).show();

}

if(id == R.id.logout){

Toast.makeText(this, "Logout", Toast.LENGTH\_SHORT).show();

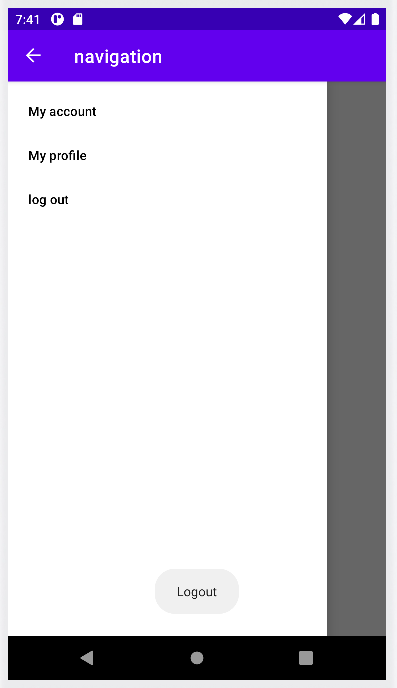
}

return false;

}

}

**Output:**



**Program 20:**

**Aim:** sqlite insert,update,delete,view

**XML code**

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<?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"

android:padding="10dp"

tools:context=".MainActivity">

<TextView

android:id="@+id/texttitle"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="20dp"

android:text="Please enter the details below"

android:textSize="24dp" />

<EditText

android:id="@+id/name"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Name"

android:textSize="24dp"

android:layout\_below="@+id/texttitle"

android:inputType="textPersonName"

/>

<EditText

android:id="@+id/contact"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Contact"

android:textSize="24dp"

android:layout\_below="@+id/name"

android:inputType="number"

/>

<EditText

android:id="@+id/dob"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Date of birth"

android:textSize="24dp"

android:layout\_below="@+id/contact"

android:inputType="number"

/>

<Button

android:id="@+id/buttonInsert"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="24dp"

android:text="Insert new Data"

android:layout\_marginTop="30dp"

android:layout\_below="@+id/dob"

/>

<Button

android:id="@+id/buttonUpdate"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="24dp"

android:text="Update Data"

android:layout\_below="@+id/buttonInsert"

/>

<Button

android:id="@+id/buttondelete"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="24dp"

android:text="Delete existing data"

android:layout\_below="@+id/buttonUpdate"

/>

<Button

android:id="@+id/buttonView"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="24dp"

android:text="View data"

android:layout\_below="@+id/buttondelete"

/>

</RelativeLayout>

activity\_main.xml

Displaying activity\_main.xml.

**Java code:**

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package com.example.crud;

import androidx.appcompat.app.AlertDialog;

import androidx.appcompat.app.AppCompatActivity;

import android.database.Cursor;

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 {

EditText name, contact, dob;

Button insert, update, delete, view;

DBHelper DB;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

name=findViewById(R.id.name);

contact=findViewById(R.id.contact);

dob=findViewById(R.id.dob);

insert=findViewById(R.id.buttonInsert);

update=findViewById(R.id.buttonUpdate);

delete=findViewById(R.id.buttondelete);

view=findViewById(R.id.buttonView);

DB=new DBHelper(this);

insert.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String nameTXT=name.getText().toString();

String contactTXT=contact.getText().toString();

String dobTXT=dob.getText().toString();

Boolean checkinsertdata=DB.insertuserdata(nameTXT,contactTXT,dobTXT);

if(checkinsertdata==true)

Toast.makeText(MainActivity.this, "New Entry Inserted", Toast.LENGTH\_SHORT).show();

else

Toast.makeText(MainActivity.this, "unable to insert", Toast.LENGTH\_SHORT).show();

}

});

update.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String nameTXT=name.getText().toString();

String contactTXT=contact.getText().toString();

String dobTXT=dob.getText().toString();

Boolean checkupdatedata=DB.updateuserdata(nameTXT,contactTXT,dobTXT);

if(checkupdatedata==true)

Toast.makeText(MainActivity.this, "Entry updated", Toast.LENGTH\_SHORT).show();

else

Toast.makeText(MainActivity.this, "Not updated", Toast.LENGTH\_SHORT).show();

}

});

delete.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String nameTXT=name.getText().toString();

Boolean checkdeletedata=DB.deletedata(nameTXT);

if(checkdeletedata==true)

Toast.makeText(MainActivity.this, "Entry deleted", Toast.LENGTH\_SHORT).show();

else

Toast.makeText(MainActivity.this, "Not deleted", Toast.LENGTH\_SHORT).show();

}

});

view.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Cursor res=DB.getdata();

if(res.getCount()==0){

Toast.makeText(MainActivity.this, "No entry exists", Toast.LENGTH\_SHORT).show();

return;

}

StringBuffer buffer=new StringBuffer();

while(res.moveToNext()){

buffer.append("Name:"+res.getString(0)+"\n");

buffer.append("Contact:"+res.getString(1)+"\n");

buffer.append("Date of Birth:"+res.getString(2)+"\n");

}

AlertDialog.Builder builder=new AlertDialog.Builder(MainActivity.this);

builder.setCancelable(true);

builder.setTitle("User Entries");

builder.setMessage(buffer.toString());

builder.show();

}

})

}

}

MainActivity.java

Displaying activity\_main.xml.

**DBHelper.java**

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package com.example.sqlite\_app;

import android.content.ContentValues;

import android.content.Context;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

import androidx.annotation.Nullable;

public class DBHelper extends SQLiteOpenHelper {

public DBHelper(Context context) {

super(context, "Userdata", null, 1);

}

@Override

public void onCreate(SQLiteDatabase DB) {

DB.execSQL("create Table Userdetails(name TEXT primary key, contact TEXT, dob TEXT)");

}

@Override

public void onUpgrade(SQLiteDatabase DB, int oldVersion, int newVersion) {

DB.execSQL("drop Table if exists Userdetails");

}

public Boolean insertuserdata(String name, String contact, String dob){

SQLiteDatabase DB=this.getWritableDatabase();

ContentValues contentValues=new ContentValues();

contentValues.put("name",name);

contentValues.put("contact",contact);

contentValues.put("dob",dob);

long result=DB.insert("Userdetails", null, contentValues);

if(result==-1){

return false;

}else{

return true;

}

}

public Boolean updateuserdata(String name, String contact, String dob){

SQLiteDatabase DB=this.getWritableDatabase();

ContentValues contentValues=new ContentValues();

contentValues.put("contact",contact);

contentValues.put("dob",dob);

Cursor cursor=DB.rawQuery("Select \* from Userdetails where name=?", new String[]{name});

if(cursor.getCount()>0) {

long result = DB.update("Userdetails", contentValues, "name=?", new String[]{name});

if (result == -1) {

return false;

} else {

return true;

}

}else{

return false;

}

}

public Boolean deletedata(String name){

SQLiteDatabase DB=this.getWritableDatabase();

Cursor cursor=DB.rawQuery("Select \* from Userdetails where name=?", new String[]{name});

if(cursor.getCount()>0) {

long result = DB.delete("Userdetails", "name=?", new String[]{name});

if (result == -1) {

return false;

} else {

return true;

}

}else{

return false;

}

}

public Cursor getdata (){

SQLiteDatabase DB=this.getWritableDatabase();

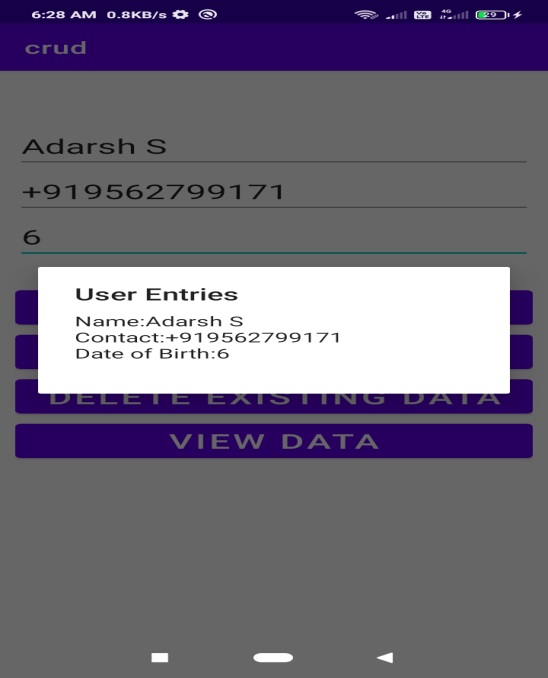
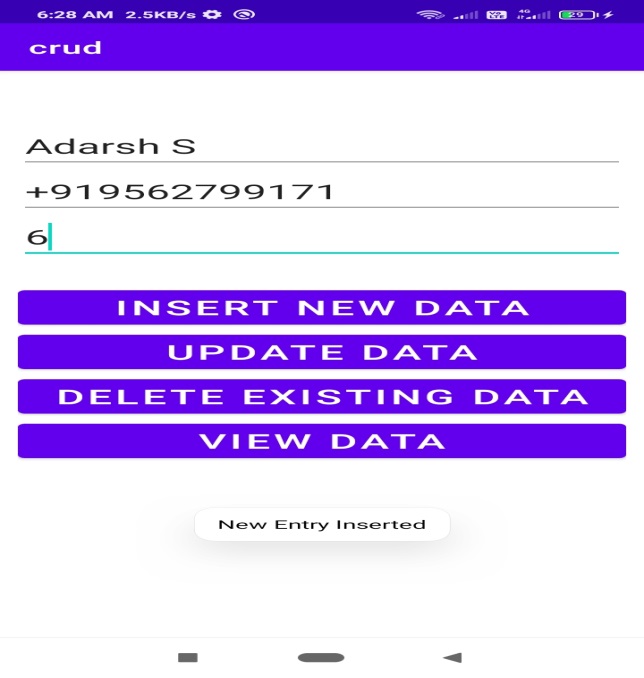
Cursor cursor=DB.rawQuery("Select \* from Userdetails",null);

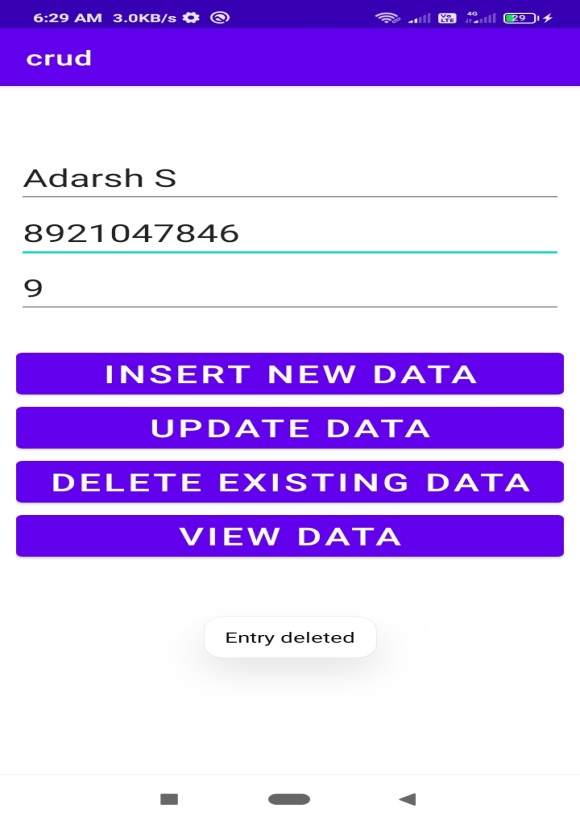
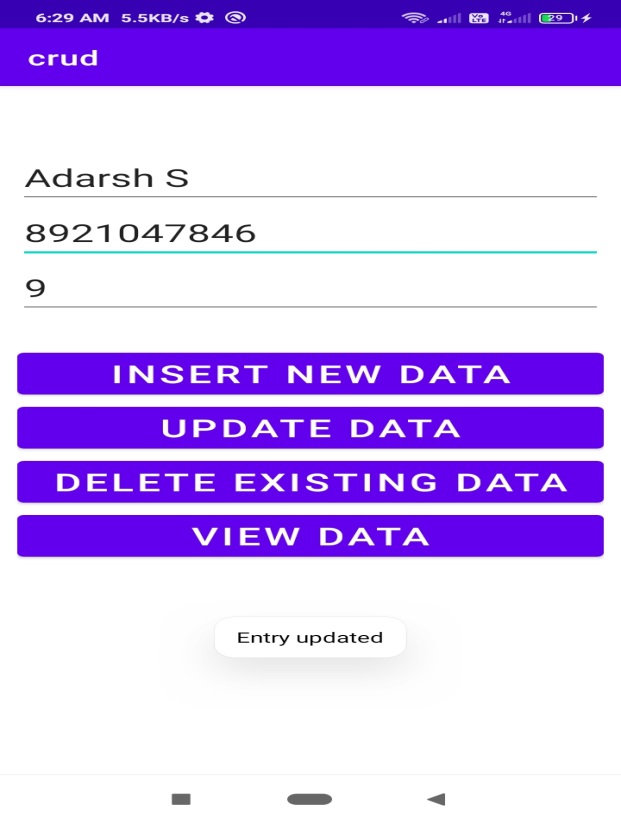
return cursor;

}

}

**Output:**

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