Odd And Even

MainActivity.java

package com.example.project1;

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;

public class MainActivity extends AppCompatActivity {

Button b;

EditText ed1;

TextView tv1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

ed1=findViewById(R.id.eid1);

tv1=findViewById(R.id.eid1);

b=findViewById(R.id.btn1);

b.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String num1 = ed1.getText().toString();

Integer a = Integer.parseInt(num1);

if( a % 2 == 0)

{

tv1.setText("Result: "+ String.valueOf(a) + "is even");

}

else

{

tv1.setText("Result: "+String.valueOf(a) + "is odd");

}

}

});

}

}

String.xml

<resources>

<string name="app\_name">ODD or EVEN</string>

<string name="num1">Enter the number</string>

<string name="result">Result</string>

</resources>

Activitymain.xml

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

<TableLayout 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">

<TableRow

android:layout\_width="wrap\_content"

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

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/num1"/>

<EditText

android:id="@+id/eid1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:inputType="number" />

</TableRow>

<TableRow

android:layout\_width="wrap\_content"

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

<Button

android:id="@+id/btn1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="check the given number is off or even" />

</TableRow>

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="@string/result" />

</TableLayout>

**activity\_main.xml**

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

<TableLayout 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">

    <TableRow

        android:layout\_width="wrap\_content"

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

        <TextView

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="@string/num1"

            />

        <EditText

            android:id="@+id/num1"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            />

    </TableRow>

    <TableRow

        android:layout\_width="wrap\_content"

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

        <TextView

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="@string/num1"

            />

        <EditText

            android:id="@+id/num2"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            />

    </TableRow>

    <TableRow

        android:layout\_width="match\_parent"

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

        <Button

            android:id="@+id/plus"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="+" />

        <Button

            android:id="@+id/minus"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="-" />

    </TableRow>

    <TableRow

        android:layout\_width="match\_parent"

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

        <Button

            android:id="@+id/star"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="\*" />

        <Button

            android:id="@+id/slash"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="/" />

    </TableRow>

    <TableRow

        android:layout\_width="match\_parent"

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

        <Button

            android:id="@+id/equal"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="=" />

        <Button

            android:id="@+id/C"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="C" />

    </TableRow>

    <TableRow>

        <TextView

            android:id="@+id/res"

            android:layout\_width="match\_parent"

            android:layout\_height="match\_parent"

            android:text="Result: " />

    </TableRow>

</TableLayout>

**MainActivity.java**

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;

public class MainActivity extends AppCompatActivity {

    EditText ed1, ed2;

    Button plus, minus, multiply, divide, clear, equal;

    TextView result;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        ed1 = findViewById(R.id.num1);

        ed2 = findViewById(R.id.num2);

        plus = findViewById(R.id.plus);

        minus = findViewById(R.id.minus);

        multiply = findViewById(R.id.star);

        divide = findViewById(R.id.slash);

        clear = findViewById(R.id.C);

        equal = findViewById(R.id.equal);

        result = findViewById(R.id.res);

        plus.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                calculate('+');

            }

        });

        minus.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                calculate('-');

            }

        });

        multiply.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                calculate('\*');

            }

        });

        divide.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                calculate('/');

            }

        });

        clear.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                ed1.setText("");

                ed2.setText("");

                result.setText("Result: ");

            }

        });

        equal.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                calculate('=');

            }

        });

    }

    private void calculate(char operator) {

        String num1Str = ed1.getText().toString();

        String num2Str = ed2.getText().toString();

        if (num1Str.isEmpty() || num2Str.isEmpty()) {

            result.setText("Result: Please enter both numbers.");

            return;

        }

        double num1 = Double.parseDouble(num1Str);

        double num2 = Double.parseDouble(num2Str);

        double resultValue = 0.0;

        switch (operator) {

            case '+':

                resultValue = num1 + num2;

                break;

            case '-':

                resultValue = num1 - num2;

                break;

            case '\*':

                resultValue = num1 \* num2;

                break;

            case '/':

                if (num2 == 0) {

                    result.setText("Result: Cannot divide by zero.");

                    return;

                }

                resultValue = num1 / num2;

                break;

            case '=':

                break;

        }

        result.setText("Result: " + resultValue);

    }

}

**strings.xml**

<resources>

    <string name="app\_name">Roshan Application Calculator</string>

    <string name="num1">Enter the first number</string>

    <string name="num2">Enter the second number</string>

    <string name="res">Result: </string>

</resources>

**Login**

**activity\_main.xml**

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

<TableLayout 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">

    <TableRow

        android:layout\_width="wrap\_content"

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

        <TextView

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="@string/un" />

        <EditText

            android:id="@+id/user"

            android:layout\_width="311dp"

            android:layout\_height="wrap\_content"

            android:hint="user" />

    </TableRow>

    <TableRow

        android:layout\_width="wrap\_content"

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

        <TextView

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="@string/ps"

            />

        <EditText

            android:id="@+id/pass"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:hint="\*\*\*\*"

            android:inputType="textPassword" />

    </TableRow>

    <TableRow

        android:layout\_width="match\_parent"

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

        <Button

            android:id="@+id/btn"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:text="Login" />

    </TableRow>

</TableLayout>

**MainActivity.java**

package com.example.rosganapplicationuserlogin;

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 {

    Button b;

    EditText ed1, ed2;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        ed1 = findViewById(R.id.user);

        ed2 = findViewById(R.id.pass);

        b = findViewById(R.id.btn);

        b.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                String txt1 = ed1.getText().toString().trim();

                String txt2 = ed2.getText().toString().trim();

                if(txt1.isEmpty() || txt2.isEmpty()){

                    Toast.makeText(MainActivity.this, "Please input Username and Password", Toast.LENGTH\_SHORT).show();

                }

                else if(txt1.equals("Roshan") || txt2.equals("root")) {

                    Toast.makeText(MainActivity.this, "Login Successful", Toast.LENGTH\_LONG).show();

                }

                else{

                    Toast.makeText(MainActivity.this, "Login Failed", Toast.LENGTH\_SHORT).show();

                }

            }

        });

    }

}

**strings.xml**

<resources>

    <string name="app\_name">Login</string>

    <string name="un">User Name: </string>

    <string name="ps">Password: </string>

</resources>

**FACEBOOK**

Activity\_main

<?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="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="fill\_parent"

android:layout\_height="fill\_parent"

android:orientation="vertical">

<ImageView

android:id="@+id/facebookView"

android:layout\_width="200dp"

android:layout\_height="80dp"

android:layout\_gravity="center"

android:src="@drawable/facebook" />

<ImageView

android:id="@+id/imageView4"

android:layout\_width="match\_parent"

android:layout\_height="281dp"

android:src="@drawable/post" />

<GridLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:layout\_marginTop="40dp"

android:columnCount="4"

android:rowCount="4">

<!-- Like ImageView -->

<ImageView

android:id="@+id/likeImageView"

android:layout\_width="110dp"

android:layout\_height="83dp"

android:layout\_gravity="center"

android:clickable="true"

android:onClick="onLikeClick"

android:src="@drawable/like" />

<!-- Comment ImageView -->

<ImageView

android:id="@+id/commentImageView"

android:layout\_width="111dp"

android:layout\_height="66dp"

android:layout\_row="0"

android:layout\_column="1"

android:layout\_gravity="center"

android:clickable="true"

android:onClick="onCommentClick"

android:src="@drawable/comment" />

<ImageView

android:id="@+id/shareImageView"

android:layout\_width="93dp"

android:layout\_height="86dp"

android:layout\_row="0"

android:layout\_column="3"

android:layout\_gravity="center"

android:clickable="true"

android:onClick="onShareClick"

android:src="@drawable/share" />

</GridLayout>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:orientation="vertical">

<ImageView

android:id="@+id/imageView7"

android:layout\_width="match\_parent"

android:layout\_height="281dp"

android:src="@drawable/dog" />

<GridLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:layout\_marginTop="40dp"

android:columnCount="4"

android:rowCount="4">

<!-- Like ImageView -->

<ImageView

android:id="@+id/likeImageView2"

android:layout\_width="110dp"

android:layout\_height="83dp"

android:layout\_gravity="center"

android:clickable="true"

android:onClick="onLikeClick"

android:src="@drawable/like" />

<!-- (Your existing ImageView code) -->

<!-- Comment ImageView -->

<ImageView

android:id="@+id/commentImageView2"

android:layout\_width="111dp"

android:layout\_height="66dp"

android:layout\_row="0"

android:layout\_column="1"

android:layout\_gravity="center"

android:clickable="true"

android:onClick="onCommentClick"

android:src="@drawable/comment" />

<ImageView

android:id="@+id/shareImageView2"

android:layout\_width="93dp"

android:layout\_height="86dp"

android:layout\_row="0"

android:layout\_column="3"

android:layout\_gravity="center"

android:clickable="true"

android:onClick="onShareClick"

android:src="@drawable/share" />

<!-- (Your existing ImageView code) -->

</GridLayout>

</LinearLayout>

</LinearLayout>

</ScrollView>

</RelativeLayout>

MainActivity.java

package com.example.facebook;

import androidx.appcompat.app.AppCompatActivity;

import android.app.Activity;

import android.os.Bundle;

import android.view.View;

import android.widget.ImageView;

import android.widget.Toast;

public class MainActivity extends Activity {

@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.facebookView );

ImageView likeImageView = findViewById(R.id.likeImageView);

ImageView commentImageView = findViewById(R.id.commentImageView);

ImageView shareImageView = findViewById(R.id.shareImageView);

// Set click listeners for the ImageViews

likeImageView.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

showToast("You clicked the Like button");

}

});

commentImageView.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

showToast("You clicked the Comment button");

}

});

shareImageView.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

showToast("You clicked the Share button");

}

});

}

// Helper method to display a toast message

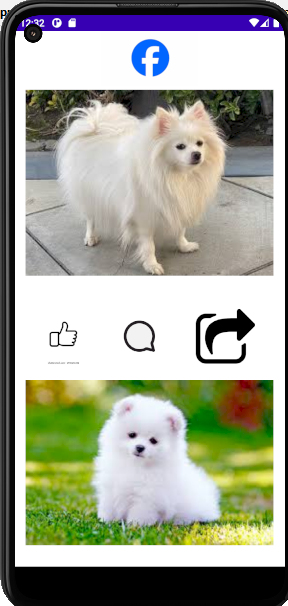
private void showToast(String message) {

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

}

}

**Output**



**Add 2 numbers**

**Activity\_main.xml-**

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

<TableLayout 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">

    <TableRow

        android:layout\_width="wrap\_content"

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

        <TextView

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="@string/num1"

        />

        <EditText

            android:id="@+id/eid1"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:inputType="text"/>

    </TableRow>

    <TableRow

        android:layout\_width="wrap\_content"

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

        <TextView

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:text="@string/num2"

            />

        <EditText

            android:id="@+id/eid2"

            android:layout\_width="wrap\_content"

            android:layout\_height="wrap\_content"

            android:inputType="text"/>

    </TableRow>

    <TableRow

    android:layout\_width="wrap\_content"

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

     <Button

         android:id="@+id/bt1"

         android:layout\_width="wrap\_content"

         android:layout\_height="wrap\_content"

         android:text="click"

         />

    <TextView

        android:id="@+id/text1"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:text="value is"

        />

    </TableRow>

</TableLayout>

**Main\_activity.java-**

package com.example.roshanapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

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 MainActivity extends AppCompatActivity {

    Button b;

    EditText e1,e2;

    TextView t1;

    @SuppressLint("MissingInflatedId")

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        e1=findViewById(R.id.eid1);

        e2=findViewById(R.id.eid2);

        t1=findViewById(R.id.text1);

        b=findViewById(R.id.bt1);

        b.setOnClickListener(new View.OnClickListener() {

            @Override

            public void onClick(View view) {

                String val1=e1.getText().toString();

                String val2=e1.getText().toString();

                Integer a1=Integer.parseInt(val1);

                Integer a2=Integer.parseInt(val2);

                Integer sum = a1+a2;

                t1.setText("The result is" +sum);

                Toast.makeText(MainActivity.this,String.valueOf(sum), Toast.LENGTH\_LONG).show();

            }

        });

    }

}

**String.xml-**

<resources>

    <string name="app\_name">add</string>

    <string name="num1">Enter the first number</string>

    <string name="num2">Enter the second number</string>

</resources>

**INTENT MULTIPLE ACTIVITY**

Develop applications with multiple activities using intents, array adapter, exceptions and options menu

**Procedure:**

**Activity\_main.xml**

<?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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="activity1"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Button"

android:onClick="switchActivity"

tools:layout\_editor\_absoluteX="158dp"

tools:layout\_editor\_absoluteY="390dp" /

</androidx.constraintlayout.widget.ConstraintLayout>

**MainActivity.java**

package com.example.activity1;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);}

public void switchActivity(View view){

Intent intent=new Intent(this, activity2.class);

intent.putExtra("user","anagha");

startActivity(intent);}

**activity\_2.xml**

<?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=".activity2"

<TextView

android:id="@+id/textView"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="activity2"

tools:layout\_editor\_absoluteX="172dp"

tools:layout\_editor\_absoluteY="354dp" />

</androidx.constraintlayout.widget.ConstraintLayout>

**activity2.java**

package com.example.activity1;

import androidx.appcompat.app.AppCompatActivity

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView

public class activity2 extends AppCompatActivity {

TextView tv;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_2);

Intent intent=getIntent();

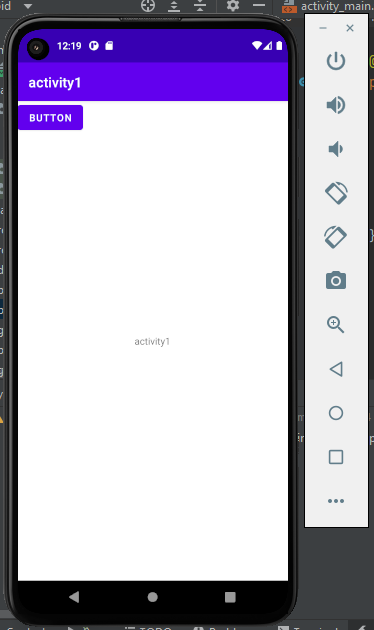
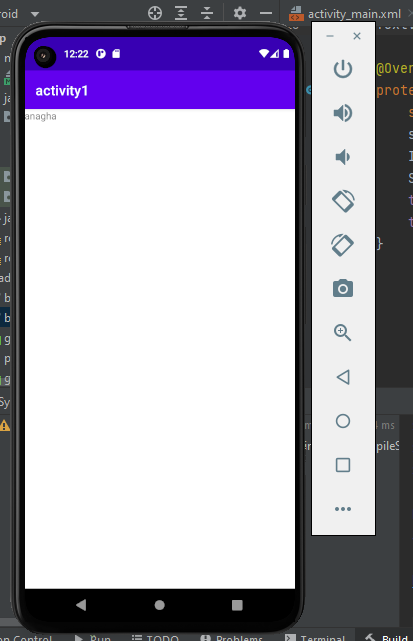
String user=intent.getStringExtra("user");

tv=findViewById(R.id.textView);

tv.setText(user);

}

**Output**

** **

**explicit intent activity**

Activitymain.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/e"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="text"

android:hint="enter the name" />

<EditText

android:id="@+id/e1"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="text"

android:hint="enter the age"/>

<Button

android:id="@+id/b1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_gravity="center"

android:onClick="switchActivity"

android:text="Submit" />

</LinearLayout>

**Activitymain.java**

package com.example.in3;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void switchActivity(View view) {

TextView text = findViewById(R.id.e);

TextView text2 = findViewById(R.id.e1);

String data=text.getText().toString();

String data2=text2.getText().toString();

// Create an Intent to start MainActivity2

Intent intent = new Intent(this, MainActivity2.class);

// Put the data into the Intent

intent.putExtra("key",data );

intent.putExtra("key2", data2);

// Start MainActivity2 with the Intent

startActivity(intent);

}

}

Activitymain 2.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">

<TextView

android:id="@+id/t1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="TextView"

tools:layout\_editor\_absoluteX="181dp"

tools:layout\_editor\_absoluteY="190dp" />

<TextView

android:id="@+id/t2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="TextView"

tools:layout\_editor\_absoluteX="175dp"

tools:layout\_editor\_absoluteY="237dp" />

</LinearLayout>

Activity main 2.java

package com.example.in3;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

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);

Intent intent = getIntent();

String receivedData = intent.getStringExtra("key");

String receivedData2 = intent.getStringExtra("key2");

// Display the received data in a TextView or do whatever you want with it

TextView data = findViewById(R.id.t1); // replace with the actual ID of your TextView

data.setText(receivedData);

TextView data2 = findViewById(R.id.t2); // replace with the actual ID of your TextView

data2.setText(receivedData2);

}

}

OPTION MENU NAVIGATE 👍

**activity\_main.xml**

<?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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

**menu\_main.xml**

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

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

<item

android:id="@+id/settings"

android:title="settings"/>

<item

android:id="@+id/about"

android:title="about"/>

<item

android:id="@+id/msgs"

android:title="starred messages"/>

</menu>

**activity\_settingspage.xml**

<?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=".settingspage">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

**settingspage.java**

package com.example.option;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class settingspage extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_settingspage);

}}

**MainActivity.java**

package com.example.option;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.Menu;

import android.view.MenuInflater;

import android.view.MenuItem;

import android.widget.Toast;

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 inflater = getMenuInflater();

inflater.inflate(R.menu.menu\_main,menu);

return super.onCreateOptionsMenu(menu);

}

@Override

public boolean onOptionsItemSelected(@NonNull MenuItem item) {

switch(item.getItemId())

{

case R.id.settings:

Intent intent = new Intent(MainActivity.this,settingspage.class);

startActivity(intent);

break;

case R.id.about:

Toast.makeText(this,"you clicked about",Toast.LENGTH\_LONG).show();

break;

case R.id.msgs:

Toast.makeText(this,"you clicked starred messages",Toast.LENGTH\_LONG).show();

break;

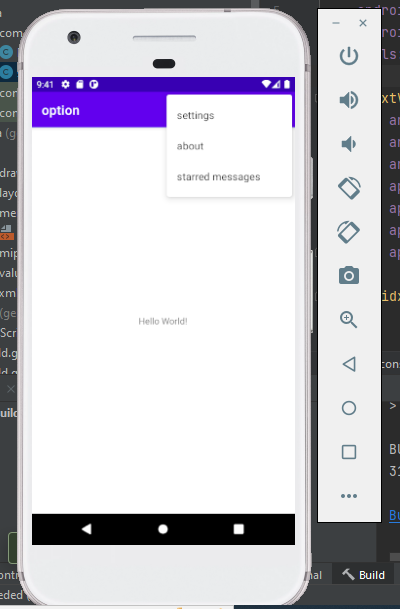
}

return super.onOptionsItemSelected(item);

}

}

**Output:**

****

**ASSIGNMENT**

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp">

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Adobe Lightroom"

android:textSize="24sp"

android:textColor="@color/colorAccent"

android:gravity="center" />

<EditText

android:id="@+id/usernameEditText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Username" />

<EditText

android:id="@+id/passwordEditText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Password"

android:inputType="textPassword" />

<Button

android:id="@+id/loginButton"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Login" />

</LinearLayout>

OG\_XML

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

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

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

android:padding="16dp">

<EditText

android:id="@+id/usernameEditText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Username" />

<EditText

android:id="@+id/passwordEditText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Password"

android:inputType="textPassword" />

<Button

android:id="@+id/loginButton"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Login" />

</LinearLayout>

java

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class LoginActivity extends AppCompatActivity {

private EditText usernameEditText;

private EditText passwordEditText;

private Button loginButton;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_login);

usernameEditText = findViewById(R.id.usernameEditText);

passwordEditText = findViewById(R.id.passwordEditText);

loginButton = findViewById(R.id.loginButton);

loginButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

// Hardcoded username and password for demonstration

String username = "yourUsername";

String password = "yourPassword";

String enteredUsername = usernameEditText.getText().toString();

String enteredPassword = passwordEditText.getText().toString();

if (enteredUsername.equals(username) && enteredPassword.equals(password)) {

Toast.makeText(LoginActivity.this, "Login Successful", Toast.LENGTH\_SHORT).show();

// You can add code to navigate to the next screen here

} else {

Toast.makeText(LoginActivity.this, "Invalid Credentials", Toast.LENGTH\_SHORT).show();

}

}

});

}

}

**navigate menu activities**

**activity\_main.xml**

<?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">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello World!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

**menu\_main.xml**

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

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

<item

android:id="@+id/settings"

android:title="settings"/>

<item

android:id="@+id/about"

android:title="about"/>

<item

android:id="@+id/msgs"

android:title="starred messages"/>

</menu>

**activity\_settingspage.xml**

<?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=".settingspage">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Hello!"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

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

</androidx.constraintlayout.widget.ConstraintLayout>

**settingspage.java**

package com.example.option;

import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;

public class settingspage extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_settingspage);

}}

**MainActivity.java**

package com.example.option;

import androidx.annotation.NonNull;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;

import android.os.Bundle;

import android.view.Menu;

import android.view.MenuInflater;

import android.view.MenuItem;

import android.widget.Toast;

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 inflater = getMenuInflater();

inflater.inflate(R.menu.menu\_main,menu);

return super.onCreateOptionsMenu(menu);

}

@Override

public boolean onOptionsItemSelected(@NonNull MenuItem item) {

switch(item.getItemId())

{

case R.id.settings:

Intent intent = new Intent(MainActivity.this,settingspage.class);

startActivity(intent);

break;

case R.id.about:

Toast.makeText(this,"you clicked about",Toast.LENGTH\_LONG).show();

break;

case R.id.msgs:

Toast.makeText(this,"you clicked starred messages",Toast.LENGTH\_LONG).show();

break;

}

return super.onOptionsItemSelected(item);

}

**output**

**explicit intent**

