1. How can you pass data between multiple activities using intent? Explain with example.

How can you declare multiple activities in the manifest? Explain with example.

Ans:Both question have same answer.

MainActivity.xml

<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"  
 tools:context=".MainActivity">  
  
 <Button  
 android:id="@+id/btn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Go to second Activity"/>  
  
</RelativeLayout>

MainActivity.java

import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.content.Intent;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 // Find the button in the layout  
 Button button = findViewById(R.id.*btn*);  
  
 // Set an OnClickListener on the button to handle click events  
 button.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 // Create an Intent to start MainActivity2  
 Intent intent = new Intent(MainActivity.this, MainActivity2.class);  
  
 // Put extra data into the Intent  
 intent.putExtra("EXTRA\_MESSAGE", "Hello, Second Activity");  
  
 // Start MainActivity2  
 startActivity(intent);  
 }  
 });  
 }  
}

SecondActivity.xml

<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"  
 tools:context=".MainActivity2">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Welcome to second activity" />  
  
</RelativeLayout>

SecondActivity.java

import android.os.Bundle;  
import android.widget.TextView;  
import android.content.Intent;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
  
public class MainActivity2 extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main2*);  
  
 //get the intent that started the activity  
 Intent intent = getIntent();  
  
 //retrieve the data passed with the intent  
 String message = intent.getStringExtra("EXTRA\_MESSAGE");  
  
 //display the message in a text view  
 TextView textView = findViewById(R.id.*textView*);  
 textView.setText(message);

AndroidManifest.xml

<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>  
  
<activity  
 android:name=".MainActivity2"  
 android:exported="false" />

**Explanation:**

1. **MainActivity.java:**
   * When the button is clicked, an Intent is created to start MainActivity2.
   * Data is added to the Intent using the putExtra method. In this case, a string with the key "EXTRA\_MESSAGE" is added.
   * The startActivity method is called to start MainActivity2.
2. **MainActivity2.java:**
   * The getIntent method is used to get the Intent that started MainActivity2.
   * The data passed from MainActivity is retrieved using the getStringExtra method with the key "EXTRA\_MESSAGE".
   * The retrieved message is then displayed in a TextView.
3. **activity\_main.xml:**
   * Defines a layout with a button. When this button is clicked, it triggers the navigation to the second activity.
4. **activity\_main2.xml:**
   * Defines a layout with a TextView that displays the message received from the first activity.
5. **AndroidManifest.xml:**
   * Registers both activities. MainActivity is set as the launcher activity.
   * MainActivity2 is also registered but does not need to be exported.
6. Develop an android application to calculate simple interest.

MainActivity.xml

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical">  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Principal"  
 android:autofillHints="principal"   
 android:inputType="number"  
 android:id="@+id/principal"/>  
   
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Rate"  
 android:autofillHints="rate"  
 android:inputType="number"  
 android:id="@+id/rate"/>  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Time"  
 android:autofillHints="time"  
 android:inputType="number"  
 android:id="@+id/time"/>  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Calculate"  
 android:textSize="20sp"  
 android:layout\_gravity="center"  
 android:id="@+id/button" />  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Answer"  
 android:textSize="40sp"  
 android:layout\_gravity="center"  
 android:id="@+id/interest" />  
</LinearLayout>

MainActivity.java

import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText principal, time, rate;  
 TextView interest;  
 Button calculate;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 //find id by the view  
 principal = findViewById(R.id.*principal*);  
 time = findViewById(R.id.*time*);  
 rate = findViewById(R.id.*rate*);  
 calculate = findViewById(R.id.*button*);  
 interest = findViewById(R.id.*interest*);  
  
 //event listener registration  
 calculate.setOnClickListener(new View.OnClickListener() {  
 @Override  
 //event handler  
 public void onClick(View view) {  
 double p = Double.*parseDouble*(principal.getText().toString());  
 double t = Double.*parseDouble*(time.getText().toString());  
 double r = Double.*parseDouble*(rate.getText().toString());  
  
 double si = ( p \* t \* r) / 100;  
  
 interest.setText(String.*valueOf*(si));  
  
 }  
 });  
  
 }  
}

Develop an android application to calculate area and perimeter of rectangle.

MainActivity.xml

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical">  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Length"  
 android:autofillHints="length"  
 android:inputType="number"  
 android:id="@+id/length"/>  
   
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Breadth"  
 android:autofillHints="breadth"  
 android:inputType="number"  
 android:id="@+id/breadth"/>  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Area"  
 android:textSize="20sp"  
 android:layout\_gravity="center"  
 android:id="@+id/areaBtn" />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Perimeter"  
 android:textSize="20sp"  
 android:layout\_gravity="center"  
 android:id="@+id/perimeterBtn" />  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Answer"  
 android:textSize="40sp"  
 android:layout\_gravity="center"  
 android:id="@+id/answer" />  
  
  
</LinearLayout>

MainActivity.java

import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText length, breadth;  
 TextView answer;  
 Button area, perimeter;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 //find id by the view  
 length = findViewById(R.id.*length*);  
 breadth = findViewById(R.id.*breadth*);  
 answer = findViewById(R.id.*answer*);  
 area = findViewById(R.id.*areaBtn*);  
 perimeter = findViewById(R.id.*perimeterBtn*);  
  
  
  
 //event listener registration  
 area.setOnClickListener(new View.OnClickListener() {  
 @Override  
 //event handler  
  
 public void onClick(View view) {  
   
 double l = Double.*parseDouble*(length.getText().toString());  
 double b = Double.*parseDouble*(breadth.getText().toString());  
 double ans = l \* b;  
 answer.setText(String.*valueOf*(ans));  
  
 }  
 });  
  
 perimeter.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
   
 double l = Double.*parseDouble*(length.getText().toString());  
 double b = Double.*parseDouble*(breadth.getText().toString());  
 double ans = 2 \* (l + b);  
 answer.setText(String.*valueOf*(ans));  
 }  
 });  
  
 }  
}

1. Develop a simple calculator application.

MainActivity.xml

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical">  
  
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter First Number:"  
 android:autofillHints="length"  
 android:inputType="number"  
 android:id="@+id/num1"/>  
   
 <EditText  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Second Number:"  
 android:autofillHints="breadth"  
 android:inputType="number"  
 android:id="@+id/num2"/>  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Addition"  
 android:textSize="20sp"  
 android:layout\_gravity="center"  
 android:id="@+id/addition" />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Subtraction"  
 android:textSize="20sp"  
 android:layout\_gravity="center"  
 android:id="@+id/subtraction" />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="multiplication"  
 android:textSize="20sp"  
 android:layout\_gravity="center"  
 android:id="@+id/multiplication" />  
  
 <Button  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Division"  
 android:textSize="20sp"  
 android:layout\_gravity="center"  
 android:id="@+id/division" />  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Answer"  
 android:textSize="40sp"  
 android:layout\_gravity="center"  
 android:id="@+id/answer" />  
  
  
</LinearLayout>

MainActivity.java

import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 EditText num1, num2;  
 TextView answer;  
 Button addition, subtraction, multiplication, division;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 //find id by the view  
 num1 = findViewById(R.id.*num1*);  
 num2 = findViewById(R.id.*num2*);  
 answer = findViewById(R.id.*answer*);  
 addition = findViewById(R.id.*addition*);  
 subtraction = findViewById(R.id.*subtraction*);  
 multiplication = findViewById(R.id.*multiplication*);  
 division = findViewById(R.id.*division*);  
  
 //event listener registration  
 addition.setOnClickListener(new View.OnClickListener() {  
 @Override  
 //event handler  
  
 public void onClick(View view) {  
  
 double n1 = Double.*parseDouble*(num1.getText().toString());  
 double n2 = Double.*parseDouble*(num2.getText().toString());  
 double ans = (n1 + n2);  
 answer.setText(String.*valueOf*(ans));  
  
 }  
 });  
  
 subtraction.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
  
 double n1 = Double.*parseDouble*(num1.getText().toString());  
 double n2 = Double.*parseDouble*(num2.getText().toString());  
 double ans = (n1 - n2);  
 answer.setText(String.*valueOf*(ans));  
 }  
 });  
  
 multiplication.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 double n1 = Double.*parseDouble*(num1.getText().toString());  
 double n2 = Double.*parseDouble*(num2.getText().toString());  
 double ans = (n1 \* n2);  
 answer.setText(String.*valueOf*(ans));  
  
 }  
 });  
  
 division.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
  
 double n1 = Double.*parseDouble*(num1.getText().toString());  
 double n2 = Double.*parseDouble*(num2.getText().toString());  
 double ans = (n1 / n2);  
 answer.setText(String.*valueOf*(ans));  
  
 }  
 });  
  
 }  
}

1. Design a signup form using any layout of your choice.

* Your design must include important widgets like TextView, EditText, Button, RadioButton, CheckBox, Spinner etc.
* When user clicks a Button display inputted data in a TextView.

MainActivity.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="8dp">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Signup Form"  
 android:textSize="20sp"  
 android:layout\_gravity="center"  
 android:padding="12dp"  
 android:textColor="@android:color/holo\_blue\_dark" />  
  
 <EditText  
 android:id="@+id/name"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Name"  
 android:autofillHints="name"  
 android:inputType="text"/>  
  
 <EditText  
 android:id="@+id/email"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Email"  
 android:autofillHints="email"  
 android:inputType="textEmailAddress"/>  
  
 <EditText  
 android:id="@+id/password"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Password"  
 android:autofillHints="name"  
 android:inputType="textPassword"/>  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Gender"  
 android:textSize="16sp"  
 android:layout\_marginTop="8dp"/>  
  
 <RadioGroup  
 android:id="@+id/gender"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content">  
  
 <RadioButton  
 android:id="@+id/male"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="male"  
 android:textSize="16sp" />  
  
 <RadioButton  
 android:id="@+id/female"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="female"  
 android:textSize="16sp" />  
 </RadioGroup>  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Interest"  
 android:textSize="16sp"  
 android:layout\_marginTop="8dp"/>  
  
 <CheckBox  
 android:id="@+id/checkboxReading"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Reading"  
 android:textSize="16sp"/>  
  
 <CheckBox  
 android:id="@+id/checkboxDancing"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Dancing"  
 android:textSize="16sp"/>  
  
 <CheckBox  
 android:id="@+id/checkboxSinging"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Singing"  
 android:textSize="16sp"/>  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Country"  
 android:textSize="16sp"  
 android:layout\_marginTop="8dp"/>  
  
 <Spinner  
 android:id="@+id/countries"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:entries="@array/countries\_array"  
 android:layout\_marginTop="8dp"/>  
  
 <Button  
 android:id="@+id/btn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Submit"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="8dp"/>  
  
 <TextView  
 android:id="@+id/result"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:visibility="gone"  
 android:text=""  
 android:layout\_marginTop="8dp"/>  
  
</LinearLayout>

MainActivity.java

import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.CheckBox;  
import android.widget.EditText;  
import android.widget.RadioButton;  
import android.widget.RadioGroup;  
import android.widget.Spinner;  
import android.widget.TextView;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 Button btn;  
 CheckBox checkboxSinging, checkBoxDancing, checkBoxReading;  
 EditText name, email, password;  
 RadioGroup gender;  
 Spinner country;  
 TextView result;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 btn = findViewById(R.id.*btn*);  
 name = findViewById(R.id.*name*);  
 email = findViewById(R.id.*email*);  
 password = findViewById(R.id.*password*);  
 gender = findViewById(R.id.*gender*);  
 checkBoxReading = findViewById(R.id.*checkboxReading*);  
 checkboxSinging = findViewById(R.id.*checkboxSinging*);  
 checkBoxDancing = findViewById(R.id.*checkboxDancing*);  
 country = findViewById(R.id.*countries*);  
 result = findViewById(R.id.*result*);  
  
 btn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 DisplayInputData();  
 }  
 });  
 }  
  
 private void DisplayInputData(){  
  
 String textName = name.getText().toString();  
 String textEmail = email.getText().toString();  
 String textPassword = password.getText().toString();  
 String textGender = ((RadioButton) findViewById(gender.getCheckedRadioButtonId())).getText().toString();  
  
 StringBuilder interests = new StringBuilder();  
 if(checkBoxReading.isChecked()) {  
 interests.append("Reading");  
 }  
 if(checkboxSinging.isChecked()){  
 interests.append("Singing");  
 }  
 if(checkBoxDancing.isChecked()){  
 interests.append("Dancing");  
 }  
 String textCountry = country.getSelectedItem().toString();  
  
 String displayText = "Name: " + textName + "\n" +  
 "Email: " + textEmail + "\n" +  
 "Password: " + textPassword + "\n" +  
 "Gender: " + textGender + "\n" +  
 "Interests: " + interests.toString() + "\n" +  
 "Country: " + textCountry;  
  
 result.setText(displayText);  
 result.setVisibility(View.*VISIBLE*);  
 }  
  
}

1. Develop an android application to input your name, address, gender and other personal information. Pass and display this information to another activity.

MainActivity.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="8dp">  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Signup Form"  
 android:textSize="20sp"  
 android:layout\_gravity="center"  
 android:padding="12dp"  
 android:textColor="@android:color/holo\_blue\_dark" />  
  
 <EditText  
 android:id="@+id/name"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Name"  
 android:autofillHints="name"  
 android:inputType="text"/>  
  
 <EditText  
 android:id="@+id/email"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Email"  
 android:autofillHints="email"  
 android:inputType="textEmailAddress"/>  
  
 <EditText  
 android:id="@+id/password"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Password"  
 android:autofillHints="name"  
 android:inputType="textPassword"/>  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Gender"  
 android:textSize="16sp"  
 android:layout\_marginTop="8dp"/>  
  
 <RadioGroup  
 android:id="@+id/gender"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content">  
  
 <RadioButton  
 android:id="@+id/male"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="male"  
 android:textSize="16sp" />  
  
 <RadioButton  
 android:id="@+id/female"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="female"  
 android:textSize="16sp" />  
 </RadioGroup>  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Interest"  
 android:textSize="16sp"  
 android:layout\_marginTop="8dp"/>  
  
 <CheckBox  
 android:id="@+id/checkboxReading"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Reading"  
 android:textSize="16sp"/>  
  
 <CheckBox  
 android:id="@+id/checkboxDancing"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Dancing"  
 android:textSize="16sp"/>  
  
 <CheckBox  
 android:id="@+id/checkboxSinging"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Singing"  
 android:textSize="16sp"/>  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Country"  
 android:textSize="16sp"  
 android:layout\_marginTop="8dp"/>  
  
 <Spinner  
 android:id="@+id/countries"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:entries="@array/countries\_array"  
 android:layout\_marginTop="8dp"/>  
  
 <Button  
 android:id="@+id/btn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Submit"  
 android:layout\_gravity="center"  
 android:layout\_marginTop="8dp"/>  
  
</LinearLayout>

MainActivity.java

import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.CheckBox;  
import android.widget.EditText;  
import android.widget.RadioButton;  
import android.widget.RadioGroup;  
import android.widget.Spinner;  
import androidx.appcompat.app.AppCompatActivity;  
  
public class MainActivity extends AppCompatActivity {  
  
 Button btn;  
 CheckBox checkboxSinging, checkBoxDancing, checkBoxReading;  
 EditText name, email, password;  
 RadioGroup gender;  
 Spinner country;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 btn = findViewById(R.id.*btn*);  
 name = findViewById(R.id.*name*);  
 email = findViewById(R.id.*email*);  
 password = findViewById(R.id.*password*);  
 gender = findViewById(R.id.*gender*);  
 checkBoxReading = findViewById(R.id.*checkboxReading*);  
 checkboxSinging = findViewById(R.id.*checkboxSinging*);  
 checkBoxDancing = findViewById(R.id.*checkboxDancing*);  
 country = findViewById(R.id.*countries*);  
  
 btn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View view) {  
 Intent intent = new Intent(MainActivity.this, SecondActivity.class);  
 intent.putExtra("message", DisplayInputData());  
 startActivity(intent);  
 }  
 });  
 }  
  
 private String DisplayInputData(){  
 String textName = name.getText().toString();  
 String textEmail = email.getText().toString();  
 String textPassword = password.getText().toString();  
 String textGender = ((RadioButton) findViewById(gender.getCheckedRadioButtonId())).getText().toString();  
  
 StringBuilder interests = new StringBuilder();  
 if(checkBoxReading.isChecked()) {  
 interests.append("Reading ");  
 }  
 if(checkboxSinging.isChecked()){  
 interests.append("Singing ");  
 }  
 if(checkBoxDancing.isChecked()){  
 interests.append("Dancing ");  
 }  
 String textCountry = country.getSelectedItem().toString();  
  
 return "Name: " + textName + "\n" +  
 "Email: " + textEmail + "\n" +  
 "Password: " + textPassword + "\n" +  
 "Gender: " + textGender + "\n" +  
 "Interests: " + interests.toString() + "\n" +  
 "Country: " + textCountry;  
 }  
}

SecondActivity.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:padding="12dp">  
  
 <TextView  
 android:id="@+id/result"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:visibility="gone"  
 android:text=""  
 android:layout\_marginTop="8dp"/>  
  
</LinearLayout>

SecondActivity.java

import android.content.Intent;  
import android.os.Bundle;  
import android.widget.TextView;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
  
public class SecondActivity extends AppCompatActivity {  
  
 TextView result;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
  
 setContentView(R.layout.*activity\_second*);  
  
 Intent intent = getIntent();  
 String message = intent.getStringExtra("message");  
  
 result = findViewById(R.id.*result*);  
 result.setText(message);  
 result.setVisibility(TextView.*VISIBLE*);  
  
 }  
}