**PVG's College of Engineering and Technology & G K Pate (Wani) IOM, Pune-411009**

**Department of Electronics and Telecommunication Engineering**

**Android Development Practical Statements for AY 2022-2023**

|  |  |
| --- | --- |
| **Sr. no** | **Experiment Title** |
| 1. | Create Application using Implicit Intent to open url in browser , give different options for different websites. |
| 2. | Create a useful application using Explicit Intent (implement using 3 Activities). |
| 3. | Create an Application using Implicit Intent to send a message to other apps in the system. |
| 4. | Create an application using 2 Fragments in 2 Activities. |
| 5. | Create an application using 2 Fragments in a Single Activity and pass data from one fragment to another. |
| 6. | Create an application using Grid Layout to open various URLs. |
| 7. | Create an application using Grid Layout to display onClick popup. |
| 8. | Create an application using Grid Layout to go to another activity. |
| 9. | Create an application to take input as a URL and display the respective WebView in another activity. |
| 10. | Create an application to display the WebView in another activity from given 4 options ( use ImageButton). |
| 11. | Create an application to take input as a URL and display the respective WebView in the same activity. |
| 12. | Create an application to Share Data using 3 Activities. |
| 13. | Create an application to Share Data using 2 Activities. |
| 14. | Create an application to display Student Registration Form using a spinner(subject) , radio button(gender) and checkbox(qualification) and show data in the next activity. |
| 15. | Create an application to display Tour Registration Form using a spinner(Group/Individual) , radio button(3 Packages) and checkbox(City/Location/Country) and show data in the next activity. |
| 16. | Create an application to display Railway Ticket Registration Form using a spinner(Berth Choice) , radio button(Name of destination City : 3 options) and checkbox( Meal variety) and show data in the next activity. |
| 17. | Create an application for SPPU F.E. Admission App using dialog box and **any two** from following :  option menu  context menu.  Popup menu |
| 18. | Create an application for Gathering Event using dialog box and **any two** from following :  option menu  context menu.  Popup menu |
| 19. | Create an application to Display Recycler View of Movie names with images. |
| 20. | Create an application to Display Recycler View of Restaurant names with images. |

**1.**

**activity\_main.xml**

<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"  
 android:orientation="vertical"  
 android:padding="16dp">  
  
 <Button  
 android:id="@+id/buttonGoogle"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Open Google" />  
  
 <Button  
 android:id="@+id/buttonFacebook"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Open Facebook" />  
  
</LinearLayout>

**MainActivity.java**

package com.example.implicitintent;  
  
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 buttonGoogle=findViewById(R.id.*buttonGoogle*);  
 Button buttonFacebook=findViewById(R.id.*buttonFacebook*);  
  
 buttonGoogle.setOnClickListener(new View.OnClickListener() {  
  
 public void onClick(View v){  
 openUrlInBrowser("https://www.google.com");  
 }  
 });  
 buttonFacebook.setOnClickListener(new View.OnClickListener() {  
  
 public void onClick(View v){  
 openUrlInBrowser("https://www.facebook.com");  
 }  
 });  
 }  
  
 private void openUrlInBrowser(String url) {  
 Intent intent = new Intent(Intent.*ACTION\_VIEW*, Uri.*parse*(url));  
 startActivities(intent);  
  
 }  
  
 private void startActivities(Intent intent) {  
 }  
}

**2.**

**activity\_main.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"

android:padding="16dp"

tools:context=".MainActivity">

<Button

android:id="@+id/navigate\_button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Navigate to InputActivity" />

</RelativeLayout>

MainActivity.java:

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

private Button navigateButton;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

navigateButton = findViewById(R.id.navigate\_button);

navigateButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

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

startActivity(intent);

}

});

}

}

activity\_input.xml (InputActivity layout):

<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"

android:orientation="vertical"

android:padding="16dp"

tools:context=".InputActivity">

<EditText

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

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter some text" />

<Button

android:id="@+id/navigate\_button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Navigate to DisplayActivity" />

</LinearLayout>

InputActivity.java:

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class InputActivity extends AppCompatActivity {

private EditText inputText;

private Button navigateButton;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_input);

inputText = findViewById(R.id.input\_text);

navigateButton = findViewById(R.id.navigate\_button);

navigateButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

Intent intent = new Intent(InputActivity.this, DisplayActivity.class);

intent.putExtra("text", text);

startActivity(intent);

}

});

}

}

activity\_display.xml (DisplayActivity layout):

<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:padding="16dp"

tools:context=".DisplayActivity">

<TextView

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

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="18sp" />

</RelativeLayout>

DisplayActivity.java:

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class DisplayActivity extends AppCompatActivity {

private TextView displayText;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_display);

displayText = findViewById(R.id.display\_text);

Intent intent = getIntent();

if (intent != null && intent.hasExtra("text")) {

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

displayText.setText(text);

}

}

}

**3.**

**activity\_main.xml**

<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"

android:orientation="vertical"

android:padding="16dp"

tools:context=".MainActivity">

<EditText

android:id="@+id/message\_edit\_text"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter your message" />

<Button

android:id="@+id/send\_button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Send" />

</LinearLayout>

MainActivity.java:

import android.content.Intent;

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 {

private EditText messageEditText;

private Button sendButton;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

messageEditText = findViewById(R.id.message\_edit\_text);

sendButton = findViewById(R.id.send\_button);

sendButton.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

String message = messageEditText.getText().toString();

sendMessage(message);

}

});

}

private void sendMessage(String message) {

Intent intent = new Intent(Intent.ACTION\_SEND);

intent.setType("text/plain");

intent.putExtra(Intent.EXTRA\_TEXT, message);

startActivity(Intent.createChooser(intent, "Send Message"));

}

}

**4.**

## MainActivity.java

package com.example.prac11;

import androidx.appcompat.app.AppCompatActivity; import androidx.fragment.app.Fragment;

import androidx.fragment.app.FragmentManager; import androidx.fragment.app.FragmentTransaction; import android.os.Bundle;

public class MainActivity extends AppCompatActivity { @Override

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

}

public void loadFragment(Fragment frag) { FragmentManager fm = getSupportFragmentManager(); FragmentTransaction ft = fm.beginTransaction(); ft.add(R.id.*container*, frag);

ft.commit();

}

}

## activity\_main.xml

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

<LinearLayout xmlns:android="<http://schemas.android.com/apk/res/android>" xmlns:app="<http://schemas.android.com/apk/res-auto>" xmlns:tools="[http://schemas.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent"

tools:context=".MainActivity">

<FrameLayout android:id="@+id/container" android:layout\_width="300dp" android:layout\_height="600dp" android:layout\_marginLeft="50dp" android:layout\_gravity="center" />

</LinearLayout>

## MainActivity2.java

package com.example.prac11;

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.widget.Button;

public class MainActivity2 extends AppCompatActivity { @Override

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

}

public void loadFragment(Fragment frag) { FragmentManager fm = getSupportFragmentManager(); FragmentTransaction ft = fm.beginTransaction(); ft.add(R.id.*container1*, frag);

ft.commit();

}

}

## activity\_main2.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"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent"

tools:context=".MainActivity2">

<FrameLayout android:id="@+id/container1" android:layout\_width="300dp" android:layout\_height="600dp" android:layout\_marginTop="70dp" android:layout\_marginLeft="60dp"/>

</LinearLayout>

## FragmentOne.java

package com.example.prac11;

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

import androidx.fragment.app.Fragment; import android.view.LayoutInflater; import android.view.View;

import android.view.ViewGroup; import android.widget.Button;

public class FragmentOne extends Fragment { View view ;

Button goToFragSec ; @Override

public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {

// Inflate the layout for this fragment

view = inflater.inflate(R.layout.*fragment\_one*, container, false); goToFragSec = (Button)

view.findViewById(R.id.*goToFragSec*); goToFragSec.setOnClickListener(new View.OnClickListener()

{

@Override

public void onClick(View v) {

Intent goToActivitySec = new Intent(getActivity() , MainActivity2.class);

startActivity(goToActivitySec);

}

});

return view ;

}

}

## SecondFragment.java

package com.example.prac11; import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View; import android.view.ViewGroup;

import androidx.annotation.NonNull; import androidx.fragment.app.Fragment;

import androidx.navigation.fragment.NavHostFragment;

import com.example.prac11.databinding.FragmentSecondBinding;

public class SecondFragment extends Fragment {

private FragmentSecondBinding binding; @Override

public View onCreateView(

LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState

) {

binding = FragmentSecondBinding.*inflate*(inflater, container, false); return binding.getRoot();

}

public void onViewCreated(@NonNull View view, Bundle savedInstanceState) { super.onViewCreated(view, savedInstanceState);

binding.goToFragOne.setOnClickListener(new View.OnClickListener() { @Override

public void onClick(View view) { NavHostFragment.*findNavController*(SecondFragment.this)

.navigate(R.id.*action\_SecondFragment\_to\_FirstFragment*);

}

});

}

@Override

public void onDestroyView() { super.onDestroyView(); binding = null;

}

}

}

## fragment\_one.xml

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

<LinearLayout xmlns:android="<http://schemas.android.com/apk/res/android>" xmlns:tools="[http://schemas.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent"

android:gravity="center" android:orientation="vertical" android:background="#FFE57F"

tools:context=".FragmentOne">

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Fragment One" android:textStyle="bold" android:textColor="#82B1FF" android:textSize="30sp" />

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

android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:layout\_marginTop="25dp" android:text="Go to Fragment 2" android:textColor="@color/black" android:textSize="20sp" />

</LinearLayout>

## fragment\_second.xml

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

<LinearLayout xmlns:android="<http://schemas.android.com/apk/res/android>" xmlns:tools="[http://schemas.android.com/tools"](http://schemas.android.com/tools) android:layout\_width="match\_parent" android:layout\_height="match\_parent"

android:orientation="vertical" android:gravity="center" android:background="#82B1FF" tools:context=".SecondFragment">

<TextView android:layout\_width="wrap\_content" android:layout\_height="wrap\_content" android:text="Fragment Second" android:textStyle="bold" android:textColor="#FFE57F" android:textSize="30sp" />

<Button android:id="@+id/goToFragOne" android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content" android:layout\_marginTop="25dp" android:text="Go to Fragment 1" android:textColor="#FFD180" android:textSize="20sp" />

</LinearLayout>

5.

Activity\_main.xml

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <Button  
 android:id="@+id/formBtn"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:text="Fill Form"  
 android:layout\_marginRight="5dp"  
 android:layout\_marginLeft="3dp"/>  
 <Button  
 android:id="@+id/displayBtn"  
 android:layout\_width="200dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginRight="7dp"  
 android:text="Display Form" />  
  
<FrameLayout  
android:layout\_width="match\_parent"  
android:layout\_height="match\_parent"  
android:id="@+id/container" />  
  
</LinearLayout>

MainActivity.java

package com.example.myapplication;  
  
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 {  
  
 private Button formBtn,displayBtn;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 formBtn=findViewById(R.id.*formBtn*);  
 displayBtn=findViewById(R.id.*displayBtn*);  
 loadFragment(new FormFragment(), 0);  
  
 formBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 loadFragment(new FormFragment(), 1);  
  
 }  
 });  
 displayBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 loadFragment(new DisplayFragment(), 1);  
 }  
 });  
 }  
  
 private void loadFragment(FormFragment frag, int flag) {  
 FragmentManager fm=getSupportFragmentManager();  
 FragmentTransaction ft=fm.beginTransaction();  
 Bundle bundle=new Bundle();  
 if (flag == 0) {  
 ft.add(R.id.*container*, frag);  
 } else {  
 ft.replace(R.id.*container*, frag);  
 }  
 ft.commit();  
 }  
  
  
}

fragment\_form.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">  
  
 <EditText  
 android:id="@+id/nameTxt"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="7dp"  
 android:hint="Enter Name : "  
 android:inputType="text"  
 android:textSize="20sp" />  
 <EditText  
 android:id="@+id/ageTxt"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="7dp"  
 android:hint="Enter Age : "  
 android:inputType="number"  
 android:textSize="20sp" />  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="10dp"  
 android:text="Choose one Elective : "  
 android:textSize="20sp" />  
 <CheckBox  
 android:id="@+id/maleCheckBox"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginTop="16dp"  
 android:text="Male"  
 android:textSize="18sp" />  
 <CheckBox  
 android:id="@+id/femaleCheckBox"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginTop="10dp"  
 android:text="Female"  
 android:textSize="18sp" />  
 <Button  
 android:id="@+id/submitBtn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="20dp"  
 android:text="Submit"  
 android:textSize="20sp" />  
  
</LinearLayout>

FormFragment.java

package com.example.myapplication;  
  
import android.os.Bundle;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.Button;  
import android.widget.CheckBox;  
import android.widget.EditText;  
  
import androidx.annotation.NonNull;  
import androidx.annotation.Nullable;  
import androidx.fragment.app.Fragment;  
  
public class FormFragment extends Fragment {  
  
 View view;  
 CheckBox maleCheckBox, femaleCheckBox;  
 EditText nameTxt, ageText;  
 Button submitBtn;  
  
 @Nullable  
 @Override  
 public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {  
  
 nameTxt=view.findViewById(R.id.nameTxt);  
 ageText=view.findViewById(R.id.ageTxt);  
 maleCheckBox=view.findViewById(R.id.maleCheckBox);  
 femaleCheckBox=view.findViewById(R.id.femaleCheckBox);  
 submitBtn=view.findViewById(R.id.submitBtn);  
  
 submitBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 String name=nameTxt.getText().toString();  
 int age=Integer.*parseInt*(ageText.getText().toString());  
 nameTxt.getText().clear();  
 ageText.getText().clear();  
  
 String gender="";  
 if (maleCheckBox.isChecked()){  
 gender="male";  
 maleCheckBox.setChecked(false);  
 } else if (femaleCheckBox.isChecked()) {  
 gender="female";  
 femaleCheckBox.setChecked(false);  
 }  
 else {  
 gender="other";  
 }  
 Bundle passData=new Bundle();  
 passData.putString("name",name);  
 passData.putInt("age",age);  
 passData.putString("gender",gender);  
  
 getParentFragmentManager().setFragmentResult("userData",passData);  
 }  
 });  
  
 return view;  
 }  
}

fragment\_display.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="horizontal">  
  
 <TextView  
 android:id="@+id/nameDisplay"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="7dp"  
 android:text="name : "  
 android:textSize="30sp" />  
 <TextView  
 android:id="@+id/ageDisplay"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="7dp"  
 android:text="Age : "  
 android:textSize="30sp" />  
 <TextView  
 android:id="@+id/genderDisplay"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_margin="7dp"  
 android:text="gender : "  
 android:textSize="30sp" />  
  
</LinearLayout>

DisplayFragment.java

package com.example.myapplication;  
  
import android.os.Bundle;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.TextView;  
  
import androidx.annotation.NonNull;  
import androidx.annotation.Nullable;  
import androidx.fragment.app.FragmentResultListener;  
  
public class DisplayFragment extends FormFragment {  
 View view;  
 TextView nameDisplay, ageDisplay, genderDisplay;  
  
 @Nullable  
 @Override  
 public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {  
 view = inflater.inflate(R.layout.*fragment\_display*, container, false);  
 nameDisplay = view.findViewById(R.id.*nameDisplay*);  
 ageDisplay = view.findViewById(R.id.*ageDisplay*);  
 genderDisplay = view.findViewById(R.id.*genderDisplay*);  
  
 getParentFragmentManager().setFragmentResultListener("userData", this,  
 new FragmentResultListener() {  
 @Override  
 public void onFragmentResult(@NonNull String requestKey, @NonNull Bundle result) {  
 String receiveName = result.getString("name");  
 int receiveAge = result.getInt("age");  
 String receiveGender = result.getString("gender");  
  
 nameDisplay.setText("User Name:" + receiveName);  
 ageDisplay.setText("User Age:" + receiveAge);  
 genderDisplay.setText("Gender:" + receiveGender);  
  
 }  
 });  
 return view;  
 }  
  
  
}

**6.**

**activity\_main.xml**

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

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

android:id="@+id/gridLayout"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:columnCount="2">

<Button

android:id="@+id/button1"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Button 1"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1" />

<Button

android:id="@+id/button2"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Button 2"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1" />

<Button

android:id="@+id/button3"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Button 3"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1" />

<Button

android:id="@+id/button4"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Button 4"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1" />

</GridLayout>

**MainActivity.java**

import android.content.Intent;

import android.net.Uri;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import androidx.appcompat.app.AppCompatActivity;

import androidx.gridlayout.widget.GridLayout;

public class MainActivity extends AppCompatActivity {

private String[] urls = {

"https://www.example.com",

"https://www.google.com",

"https://www.github.com",

"https://www.openai.com"

};

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

GridLayout gridLayout = findViewById(R.id.gridLayout);

int childCount = gridLayout.getChildCount();

for (int i = 0; i < childCount; i++) {

Button button = (Button) gridLayout.getChildAt(i);

final int index = i;

button.setOnClickListener(v -> {

openURL(urls[index]);

});

}

}

private void openURL(String url) {

Intent intent = new Intent(Intent.ACTION\_VIEW, Uri.parse(url));

startActivity(intent);

}

}

**7.**

**activity\_main.xml**

<GridLayout

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

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

android:id="@+id/gridLayout"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:columnCount="3"

android:rowCount="3"

android:padding="16dp"

tools:context=".MainActivity">

<Button

android:id="@+id/button1"

android:layout\_width="0dp"

android:layout\_height="0dp"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1"

android:text="Button 1"

android:onClick="showPopup" />

<Button

android:id="@+id/button2"

android:layout\_width="0dp"

android:layout\_height="0dp"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1"

android:text="Button 2"

android:onClick="showPopup" />

<Button

android:id="@+id/button3"

android:layout\_width="0dp"

android:layout\_height="0dp"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1"

android:text="Button 3"

android:onClick="showPopup" />

<!-- Add more buttons as needed -->

</GridLayout>

**MainActivity.java**

import android.os.Bundle;

import android.view.View;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void showPopup(View view) {

Button button = (Button) view;

String buttonText = button.getText().toString();

Toast.makeText(this, "Clicked on " + buttonText, Toast.LENGTH\_SHORT).show();

}

}

**8.**

**activity\_main.xml**

<GridLayout

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

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

android:id="@+id/gridLayout"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:columnCount="3"

android:rowCount="3"

android:padding="16dp"

tools:context=".MainActivity">

<Button

android:id="@+id/button1"

android:layout\_width="0dp"

android:layout\_height="0dp"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1"

android:text="Button 1"

android:onClick="openActivity2" />

<Button

android:id="@+id/button2"

android:layout\_width="0dp"

android:layout\_height="0dp"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1"

android:text="Button 2"

android:onClick="openActivity2" />

<Button

android:id="@+id/button3"

android:layout\_width="0dp"

android:layout\_height="0dp"

android:layout\_columnWeight="1"

android:layout\_rowWeight="1"

android:text="Button 3"

android:onClick="openActivity2" />

<!-- Add more buttons as needed -->

</GridLayout>

Main Activity

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void openActivity2(View view) {

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

startActivity(intent);

}

}

Activity\_second.xml

<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"

android:orientation="vertical"

android:gravity="center"

tools:context=".SecondActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Second Activity"

android:textSize="24sp"

android:textStyle="bold"

android:layout\_marginBottom="16dp"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Go Back"

android:onClick="goBack" />

</LinearLayout>

SecondActivity.java

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import androidx.appcompat.app.AppCompatActivity;

public class SecondActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_second);

}

public void goBack(View view) {

finish();

}

}

9.

Aactivity\_main.xml

<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"

android:orientation="vertical"

android:padding="16dp"

tools:context=".MainActivity">

<EditText

android:id="@+id/urlEditText"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter URL"

android:inputType="textUri" />

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:text="Open WebView"

android:onClick="openWebViewActivity" />

</LinearLayout>

MainActivity.java

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

private EditText urlEditText;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

urlEditText = findViewById(R.id.urlEditText);

}

public void openWebViewActivity(View view) {

String url = urlEditText.getText().toString();

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

intent.putExtra("url", url);

startActivity(intent);

}

}

Activity\_web\_view.xml

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

<RelativeLayout

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

android:layout\_width="match\_parent"

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

<WebView

android:id="@+id/webView"

android:layout\_width="match\_parent"

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

</RelativeLayout>

WebViewActivity.java

import android.os.Bundle;

import android.webkit.WebView;

import android.webkit.WebViewClient;

import androidx.appcompat.app.AppCompatActivity;

public class WebViewActivity extends AppCompatActivity {

private WebView webView;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_web\_view);

webView = findViewById(R.id.webView);

webView.setWebViewClient(new WebViewClient());

String url = getIntent().getStringExtra("url");

webView.loadUrl(url);

}

}

}

10.

Activity\_main.xml

<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"

android:orientation="vertical"

android:gravity="center"

tools:context=".MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Select an Option"

android:textSize="24sp"

android:textStyle="bold"

android:layout\_marginBottom="16dp"/>

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:gravity="center">

<ImageButton

android:id="@+id/imageButton1"

android:layout\_width="100dp"

android:layout\_height="100dp"

android:src="@drawable/ic\_option1"

android:contentDescription="Option 1"

android:onClick="openWebViewActivity" />

<ImageButton

android:id="@+id/imageButton2"

android:layout\_width="100dp"

android:layout\_height="100dp"

android:src="@drawable/ic\_option2"

android:contentDescription="Option 2"

android:onClick="openWebViewActivity" />

<ImageButton

android:id="@+id/imageButton3"

android:layout\_width="100dp"

android:layout\_height="100dp"

android:src="@drawable/ic\_option3"

android:contentDescription="Option 3"

android:onClick="openWebViewActivity" />

<ImageButton

android:id="@+id/imageButton4"

android:layout\_width="100dp"

android:layout\_height="100dp"

android:src="@drawable/ic\_option4"

android:contentDescription="Option 4"

android:onClick="openWebViewActivity" />

</LinearLayout>

</LinearLayout>

MainActivity.java

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void openWebViewActivity(View view) {

String url;

switch (view.getId()) {

case R.id.imageButton1:

url = "https://www.example.com/option1";

break;

case R.id.imageButton2:

url = "https://www.example.com/option2";

break;

case R.id.imageButton3:

url = "https://www.example.com/option3";

break;

case R.id.imageButton4:

url = "https://www.example.com/option4";

break;

default:

url = "";

break;

}

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

intent.putExtra("url", url);

startActivity(intent);

}

}

Activity\_web\_view.xml

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

<RelativeLayout

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

android:layout\_width="match\_parent"

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

<WebView

android:id="@+id/webView"

android:layout\_width="match\_parent"

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

</RelativeLayout>

WebViewActivity.java

import android.content.Intent;

import android.os.Bundle;

import android.webkit.WebView;

import android.webkit.WebViewClient;

import androidx.appcompat.app.AppCompatActivity;

public class WebViewActivity extends AppCompatActivity {

private WebView webView;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_web\_view);

webView = findViewById(R.id.webView);

webView.setWebViewClient(new WebViewClient());

String url = getIntent().getStringExtra("url");

webView.loadUrl(url);

}

}

}

11.

Activity\_main.xml

<?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">

<EditText

android:id="@+id/url\_edittext"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:layout\_margin="16dp"

android:hint="Enter URL"

android:inputType="textUri" />

<Button

android:id="@+id/go\_button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/url\_edittext"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="16dp"

android:text="Go" />

<WebView

android:id="@+id/webview"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:layout\_below="@id/go\_button" />

</RelativeLayout>

MainActivity.java

import android.os.Bundle;

import android.webkit.WebView;

import android.webkit.WebViewClient;

import android.widget.Button;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

private EditText urlEditText;

private Button goButton;

private WebView webView;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

urlEditText = findViewById(R.id.url\_edittext);

goButton = findViewById(R.id.go\_button);

webView = findViewById(R.id.webview);

webView.setWebViewClient(new WebViewClient());

goButton.setOnClickListener(view -> loadWebPage());

}

private void loadWebPage() {

String url = urlEditText.getText().toString().trim();

webView.loadUrl(url);

}

}

}

12.

Activity\_main.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"

android:padding="16dp"

tools:context=".MainActivity">

<Button

android:id="@+id/btnInputData"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Input Data" />

</RelativeLayout>

MainActivity.main

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

findViewById(R.id.btnInputData).setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

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

startActivity(intent);

}

});

}

}

Activity\_data\_input.xml

<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"

android:orientation="vertical"

android:padding="16dp"

tools:context=".DataInputActivity">

<EditText

android:id="@+id/etDataInput"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Enter data" />

<Button

android:id="@+id/btnSubmit"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Submit" />

</LinearLayout>

DataInput.java

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import androidx.appcompat.app.AppCompatActivity;

public class DataInputActivity extends AppCompatActivity {

private EditText etDataInput;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_data\_input);

etDataInput = findViewById(R.id.etDataInput);

Button btnSubmit = findViewById(R.id.btnSubmit);

btnSubmit.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

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

Intent intent = new Intent(DataInputActivity.this, DataDisplayActivity.class);

intent.putExtra("data", data);

startActivity(intent);

}

});

}

}

Activity\_data\_display.xml

<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"

android:orientation="vertical"

android:padding="16dp"

tools:context=".DataDisplayActivity">

<TextView

android:id="@+id/tvDisplayData"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textSize="18sp" />

</LinearLayout>

DataDisplayActivity.java

import android.os.Bundle;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class DataDisplayActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_data\_display);

String data = getIntent().getStringExtra("data");

TextView tvDisplayData = findViewById(R.id.tvDisplayData);

tvDisplayData.setText(data);

}

}

13.

Activity\_main.xml

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 android:padding="16dp"  
 tools:context=".MainActivity">  
  
 <EditText  
 android:id="@+id/etInputData"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter Text"/>  
  
 <Button  
 android:id="@+id/btnSubmit"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Submit"/>  
  
</LinearLayout>

MainActivity.java

package com.example.myapplication;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
  
 private EditText etInputData;  
 private Button btnSubmit;  
 private boolean data;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 etInputData=findViewById(R.id.*etInputData*);  
 btnSubmit=findViewById(R.id.*btnSubmit*);  
 btnSubmit.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 String Data=etInputData.getText().toString();  
 Intent intent=new Intent(MainActivity.this,DataDisplayActivity.class);  
  
 intent.putExtra("data",data);  
 startActivity(intent);  
  
 }  
 });  
 }  
}

activity\_data\_display.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"  
 tools:context=".DataDisplayActivity">  
  
 <TextView  
 android:id="@+id/tvDisplayData"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textSize="18sp"/>  
  
</LinearLayout>

DataInputActivity.java

package com.example.myapplication;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.widget.TextView;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
public class DataDisplayActivity extends AppCompatActivity {  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_data\_display*);  
  
 Intent intent = getIntent();  
 if (intent != null) {  
 String data = intent.getStringExtra("data");  
 TextView tvDisplayData = findViewById(R.id.*tvDisplayData*);  
 tvDisplayData.setText(data);  
 }  
 }  
}

14.

1. activity\_main.xml (main layout file):

<?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"

tools:context=".MainActivity">

<TextView

android:id="@+id/textViewSubject"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Select Subject:" />

<Spinner

android:id="@+id/spinnerSubject"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/textViewSubject"

android:layout\_marginTop="10dp"

android:entries="@array/subject\_array" />

<TextView

android:id="@+id/textViewGender"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/spinnerSubject"

android:layout\_marginTop="20dp"

android:text="Select Gender:" />

<RadioGroup

android:id="@+id/radioGroupGender"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/textViewGender"

android:layout\_marginTop="10dp"

android:orientation="horizontal">

<RadioButton

android:id="@+id/radioButtonMale"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Male" />

<RadioButton

android:id="@+id/radioButtonFemale"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Female" />

<RadioButton

android:id="@+id/radioButtonOther"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Other" />

</RadioGroup>

<TextView

android:id="@+id/textViewQualification"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/radioGroupGender"

android:layout\_marginTop="20dp"

android:text="Select Qualification:" />

<CheckBox

android:id="@+id/checkBox10th"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/textViewQualification"

android:layout\_marginTop="10dp"

android:text="10th" />

<CheckBox

android:id="@+id/checkBox12th"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/checkBox10th"

android:text="12th" />

<CheckBox

android:id="@+id/checkBoxGraduation"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/checkBox12th"

android:text="Graduation" />

<Button

android:id="@+id/buttonSubmit"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_below="@id/checkBoxGraduation"

android:layout\_marginTop="20dp"

android:text="Submit" />

</RelativeLayout>

1. MainActivity.java:

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.Button;

import android.widget.CheckBox;

import android.widget.RadioButton;

import android.widget.RadioGroup;

import android.widget.Spinner;

import androidx.appcompat.app.AppCompatActivity;

import java.util.ArrayList;

import java.util.List;

public class MainActivity extends AppCompatActivity {

private Spinner spinnerSubject;

private RadioGroup radioGroupGender;

private CheckBox checkBox10th, checkBox12th, checkBoxGraduation;

private Button buttonSubmit;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

spinnerSubject = findViewById(R.id.spinnerSubject);

radioGroupGender = findViewById(R.id.radioGroupGender);

checkBox10th = findViewById(R.id.checkBox10th);

checkBox12th = findViewById(R.id.checkBox12th);

checkBoxGraduation = findViewById(R.id.checkBoxGraduation);

buttonSubmit = findViewById(R.id.buttonSubmit);

// Populate spinner with subject options

List<String> subjects = new ArrayList<>();

subjects.add("Mathematics");

subjects.add("Science");

subjects.add("English");

ArrayAdapter<String> adapter = new ArrayAdapter<>(this, android.R.layout.simple\_spinner\_item, subjects);

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

spinnerSubject.setAdapter(adapter);

buttonSubmit.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View v) {

submitForm();

}

});

}

private void submitForm() {

String selectedSubject = spinnerSubject.getSelectedItem().toString();

int selectedGenderId = radioGroupGender.getCheckedRadioButtonId();

RadioButton selectedGenderRadioButton = findViewById(selectedGenderId);

String selectedGender = selectedGenderRadioButton.getText().toString();

StringBuilder selectedQualifications = new StringBuilder();

if (checkBox10th.isChecked()) {

selectedQualifications.append("10th, ");

}

if (checkBox12th.isChecked()) {

selectedQualifications.append("12th, ");

}

if (checkBoxGraduation.isChecked()) {

selectedQualifications.append("Graduation, ");

}

// Remove trailing comma and space

if (selectedQualifications.length() > 0) {

selectedQualifications.setLength(selectedQualifications.length() - 2);

}

// Create intent to start DisplayDataActivity

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

intent.putExtra("subject", selectedSubject);

intent.putExtra("gender", selectedGender);

intent.putExtra("qualifications", selectedQualifications.toString());

startActivity(intent);

}

}

activity\_display\_data.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:gravity="center"

android:orientation="vertical">

<TextView

android:id="@+id/textViewDisplaySubject"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textSize="20sp" />

<TextView

android:id="@+id/textViewDisplayGender"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="10dp"

android:textSize="20sp" />

<TextView

android:id="@+id/textViewDisplayQualification"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="10dp"

android:textSize="20sp" />

</LinearLayout>

1. DisplayDataActivity.java:

import android.os.Bundle;

import android.widget.TextView;

import androidx.appcompat.app.AppCompatActivity;

public class DisplayDataActivity extends AppCompatActivity {

private TextView textViewDisplaySubject, textViewDisplayGender, textViewDisplayQualification;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_display\_data);

textViewDisplaySubject = findViewById(R.id.textViewDisplaySubject);

textViewDisplayGender = findViewById(R.id.textViewDisplayGender);

textViewDisplayQualification = findViewById(R.id.textViewDisplayQualification);

// Retrieve data from intent

String subject = getIntent().getStringExtra("subject");

String gender = getIntent().getStringExtra("gender");

String qualifications = getIntent().getStringExtra("qualifications");

// Display data in TextViews

textViewDisplaySubject.setText("Subject: " + subject);

textViewDisplayGender.setText("Gender: " + gender);

textViewDisplayQualification.setText("Qualifications: " + qualifications);

}

}