

Practical-4

Intent & Fragment

1. create two fragments

★ 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">

<FrameLayout
    android:id="@+id/frame1"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:background="#ACB7E1"
    android:paddingRight="50dp"
    app:layout_constraintStart_toStartOf="parent" />

<FrameLayout
    android:id="@+id/frame2"
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:background="#CABCBBC"
    android:paddingRight="60dp"
    app:layout_constraintStart_toEndOf="@id/frame1" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

★ MainActivity.java

```
package com.example.lab_4;

import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentTransaction;

import android.os.Bundle;

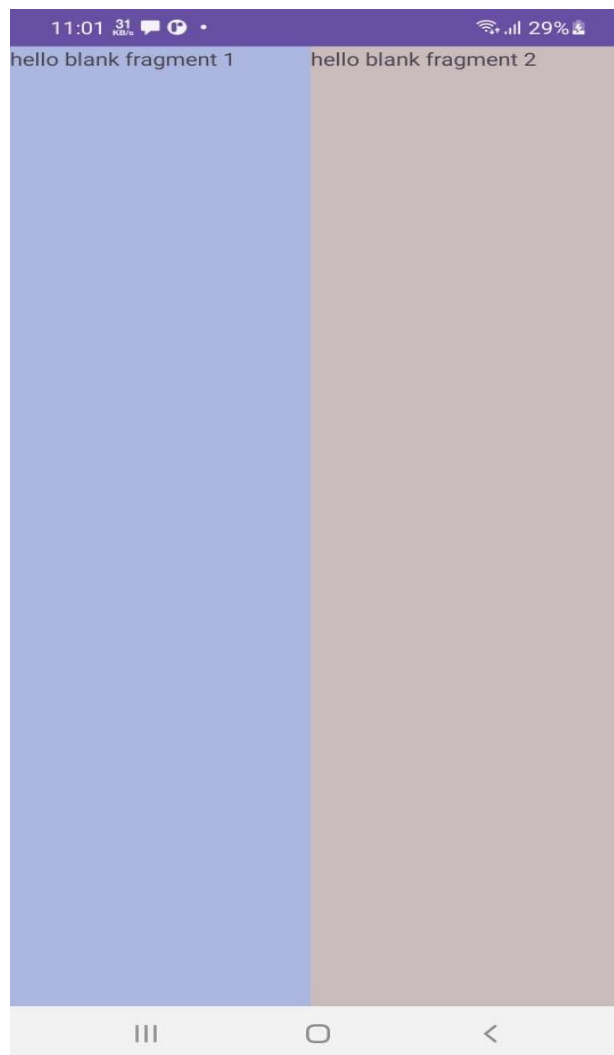
public class MainActivity extends AppCompatActivity {
```

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```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    BlankFragment fragment1=new BlankFragment();
    BlankFragment2 fragment2=new BlankFragment2();
    FragmentManager fragmentManager=getSupportFragmentManager();
    FragmentTransaction fragmentTransaction=fragmentManager.beginTransaction();
    fragmentTransaction.replace(R.id.frame1,fragment1);
    fragmentTransaction.replace(R.id.frame2,fragment2);
    fragmentTransaction.commit();
}
}
```

- **Output:-**



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2. Create an application which creates a two fragments one with list item, and another shows the details of item selected in first fragment.

★ Activity_main.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"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal"
    tools:context="com.example.lab4_2.MainActivity">

    <fragment
        android:layout_height="match_parent"
        android:layout_width="350px"
        class="com.example.lab4_2.ListMenuFragment"
        android:id="@+id/fragment"/>
    <fragment
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        class="com.example.lab4_2.DetailsFragment"
        android:id="@+id/fragment2"/>
</LinearLayout>
```

★ Details_info.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#0079D6">
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:textColor="#ffffff"
        android:layout_marginTop="20dp"
        android:layout_marginLeft="20dp"
        android:id="@+id/Name"/>
    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginLeft="200px"
        android:textColor="#ffffff"
```

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```
android:id="@+id/Location"/>
</LinearLayout>
```

★ Listitems_info.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent">
    <ListView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@android:id/list" />
</LinearLayout>
```

★ DetailsFragment.java

```
package com.example.lab4_2;
import android.app.Fragment;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

public class DetailsFragment extends Fragment {
    TextView name,location;
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {
        View view = inflater.inflate(R.layout.details_info, container, false);
        name = (TextView)view.findViewById(R.id.Name);
        location = (TextView)view.findViewById(R.id.Location);
        return view;
    }
    public void change(String uname, String ulocation){
        name.setText(uname);
        location.setText(ulocation);
    }
}
```

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★ ListMenuFragment.java

```
package com.example.lab4_2;

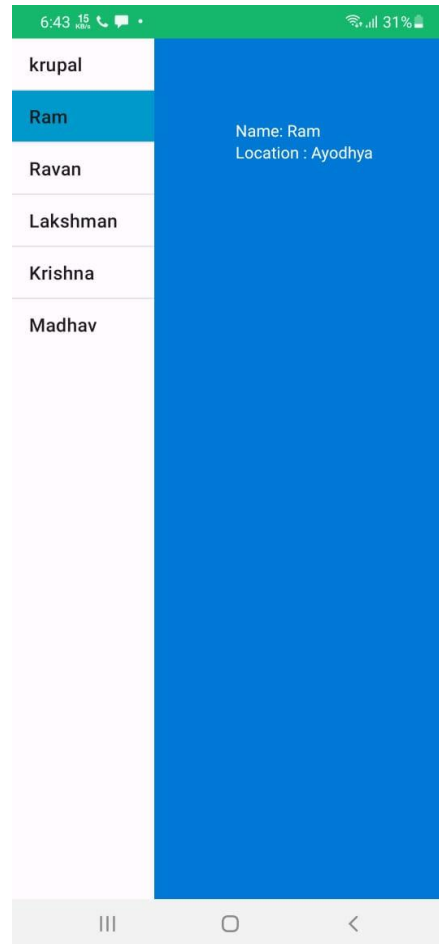
import android.app.ListFragment;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.ListView;

public class ListMenuFragment extends ListFragment {
    String[] users = new String[] { "krupal", "Ram", "Ravan", "Lakshman", "Krishna", "Madhav" };
    String[] location = new
String[]{"MAhuva", "Ayodhya", "Srilanka", "Ayodhya", "Dwarka", "Vrindavan"};
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle
savedInstanceState) {
        View view =inflater.inflate(R.layout.listitems_info, container, false);
        ArrayAdapter<String> adapter = new ArrayAdapter<String>(getActivity(),
            android.R.layout.simple_list_item_1, users);
        setListAdapter(adapter);
        return view;
    }
    @Override
    public void onItemClick(ListView l, View v, int position, long id) {
        DetailsFragment txt =
        (DetailsFragment)getFragmentManager().findFragmentById(R.id.fragment2);
        txt.change("Name: "+ users[position], "Location : "+ location[position]);
        getListView().setSelector(android.R.color.holo_blue_dark);
    }
}
```

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- Output



3. Create an android application with four buttons like web browser, make calls, show map and choose contact Operations are

- 1. By clicking on browser button , it should open “www.google.com” in android built in browser application**
- 2. By Clicking on make call button, it should open the phone dialer with a predefined number.**
- 3. By Clicking on show map button, it should plot a specified location coordinates in the built in google map application**

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★ 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">

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="40dp"
    android:layout_marginTop="40dp">
    <Button
        android:id="@+id/browser"
        style="@style/Widget.AppCompat.Button.Colored"
        android:layout_width="350dp"
        android:layout_height="100dp"
        android:text="BROWSER"
        android:textSize="24sp"
        android:layout_gravity="center"
    />
    <Button
        android:id="@+id/map"
        style="@style/Widget.AppCompat.Button.Colored"
        android:layout_width="350dp"
        android:textSize="24sp"
        android:layout_height="100dp"
        android:text="SHOW MAP"
        android:layout_gravity="center"
    />

    <Button
        android:id="@+id/dialer"
        style="@style/Widget.AppCompat.Button.Colored"
```

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```
        android:layout_width="350dp"
        android:textSize="24sp"
        android:layout_height="100dp"

        android:layout_gravity="center"
        android:text="MAKE CALL" />
        <Button
            android:id="@+id/contact"
            style="@style/Widget.AppCompat.Button.Colored"
            android:layout_width="350dp"
            android:layout_height="100dp"
            android:text="CHOOSE CONTACT"
            android:textSize="24sp"
            android:layout_gravity="center"
            />
    </LinearLayout>

</androidx.constraintlayout.widget.ConstraintLayout>
```

★ MainActivity.java

```
package com.example.la4_3;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.provider.ContactsContract;
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 browser=findViewById(R.id.browser);
```


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```
Button map=findViewById(R.id.map);

Button dialer=findViewById(R.id.dialer);
Button contact=findViewById(R.id.contact);

browser.setOnClickListener(view -> {

Intent intent=new Intent(Intent.ACTION_VIEW, Uri.parse("http://www.google.com"));
    startActivity(intent);
});

map.setOnClickListener(view -> {
    Intent intent=new Intent(Intent.ACTION_VIEW,Uri.parse("http://surl.li/kciqx"));

    startActivity(intent);
});

dialer.setOnClickListener(view -> {
    Intent intent=new Intent(Intent.ACTION_DIAL,Uri.parse("tel:1234567890"));
    startActivity(intent);
});

contact.setOnClickListener(view -> {
    Intent intent=new Intent(Intent.ACTION_PICK,
ContactsContract.Contacts.CONTENT_URI);
    startActivity(intent);

});

}

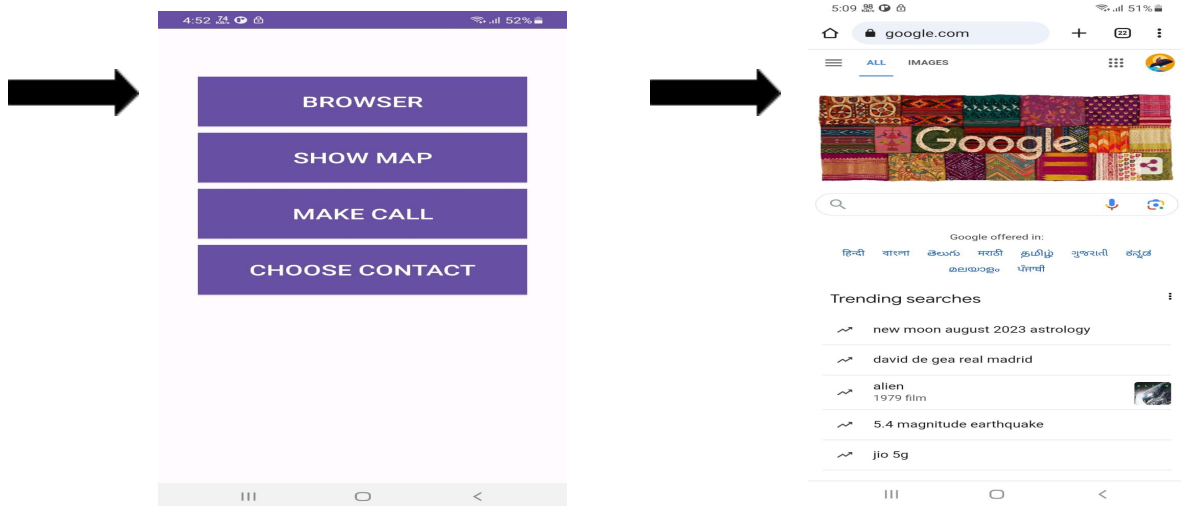
}
```

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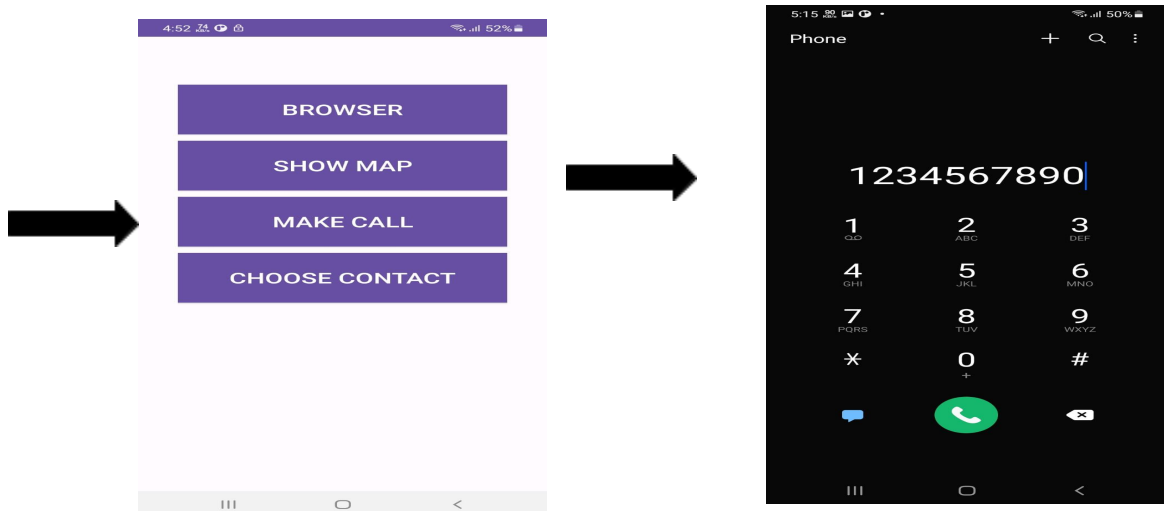
Intent & Fragment

- Output

1. Click on browser button



2.click on make call button



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4. Create an android application with two activities. First activity with “ENTER” button and second screen with a welcome message. By clicking “ENTER” it should bring the use to the second screen.

★ 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">

    <Button
        android:id="@+id/btn"
        style="@style/Widget.AppCompat.Button"
        android:layout_width="350dp"
        android:layout_height="100dp"
        android:text="ENTER"
        android:textSize="36sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

★ Activity_main2.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=".MainActivity2">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
```

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```
android:text="WELCOME"  
android:textSize="48sp"
```

```
app:layout_constraintTop_toTopOf="parent"  
app:layout_constraintBottom_toBottomOf="parent"  
app:layout_constraintLeft_toLeftOf="parent"  
app:layout_constraintRight_toRightOf="parent"/>  
</androidx.constraintlayout.widget.ConstraintLayout>
```

★ MainActivity.java

```
package com.example.lab4_4;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.widget.Button;  
  
public class MainActivity extends AppCompatActivity {  
  
    @Override  
  
    protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
  
        setContentView(R.layout.activity_main);  
        Button btn=findViewById(R.id.btn);  
  
        btn.setOnClickListener(view -> {  
            Intent intent=new Intent(getApplicationContext(), MainActivity2.class);  
            startActivity(intent);  
        });  
  
    }  
  
}
```

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- Output

