**Mobile Application Development**

* **Practical 6: Android Intent**

**CODE:**

**Andriod\_manifest.xml**

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.intent\_acitivity"**>  
  
 <**uses-permission android:name="android.permission.INTERNET"** />  
 <**uses-permission android:name="android.permission.WRITE\_EXTERNAL\_STORAGE"**/>  
 <**uses-permission android:name="android.permission.READ\_EXTERNAL\_STORAGE"**/>  
  
 <**application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.IntentAcitivity"**>  
 <**activity android:name=".MainActivity2"**></**activity**>  
 <**activity android:name=".MainActivity"  
 android:exported="true"** >  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
 </**application**>  
  
</**manifest**>

**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"  
 android:background="#F9FBF8"  
 android:backgroundTint="@android:color/system\_accent1\_10"  
 tools:context="com.example.intent\_acitivity.MainActivity"**>  
  
 <**Button  
 android:id="@+id/btnNavigate2"  
 android:layout\_width="120dp"  
 android:layout\_height="56dp"  
  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="120dp"  
 android:layout\_marginTop="44dp"  
 android:layout\_marginEnd="186dp"  
 android:layout\_marginBottom="419dp"  
 android:backgroundTint="#EDE493"  
 android:text="YouTube"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/btnNavigate"  
 tools:ignore="MissingConstraints"** />  
  
 <**Button  
 android:id="@+id/btn1"  
 android:layout\_width="77dp"  
 android:layout\_height="43dp"  
  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginStart="282dp"  
 android:layout\_marginTop="486dp"  
 android:layout\_marginEnd="52dp"  
 android:layout\_marginBottom="80dp"  
 android:text="next"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/urlText"** />  
  
 <**EditText  
 android:id="@+id/urlText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:ems="10"  
 android:hint="@android:string/search\_go"  
 android:minHeight="30dp"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.112"  
 tools:ignore="MissingConstraints,SpeakableTextPresentCheck"** />  
  
 <**Button  
 android:id="@+id/btnNavigate"  
 android:layout\_width="120dp"  
 android:layout\_height="54dp"  
  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:backgroundTint="#F1BABA"  
 android:text="Google"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.389"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.248"** />  
</**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"**>  
  
 <**ImageView  
 android:id="@+id/img"  
 android:layout\_width="411dp"  
 android:layout\_height="294dp"  
 android:layout\_marginBottom="188dp"  
 android:background="#E3F2FD"  
 android:backgroundTint="#EEF5F6"  
 android:visibility="visible"  
 app:layout\_constraintBottom\_toTopOf="@+id/btn2"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="1.0"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="1.0"  
 tools:ignore="MissingConstraints"** />  
  
 <**Button  
 android:id="@+id/btn2"  
 android:layout\_width="122dp"  
 android:layout\_height="50dp"  
  
 android:backgroundTint="#C6CDF4"  
 android:text="Previous"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.05"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.859"  
 tools:ignore="SpeakableTextPresentCheck"** />  
  
 <**TextView  
 android:id="@+id/tv"  
 android:layout\_width="263dp"  
 android:layout\_height="56dp"  
 android:layout\_marginBottom="28dp"  
 android:background="#64B5F6"  
 android:backgroundTint="#EDE6DA"  
 android:fontFamily="cursive"  
 android:text="Show Image Form Gallery"  
 android:textSize="25dp"  
 app:layout\_constraintBottom\_toTopOf="@+id/img"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.495"  
 app:layout\_constraintStart\_toStartOf="parent"** />  
  
 <**Button  
 android:id="@+id/pickbtn"  
 android:layout\_width="147dp"  
 android:layout\_height="46dp"  
 android:backgroundTint="#F4F0C5"  
 android:text="Image"  
 android:textColor="#777272"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.442"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.596"** />  
</**androidx.constraintlayout.widget.ConstraintLayout**>

**MainActivity.java**

**package** com.example.intent\_acitivity;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
**import** android.Manifest;  
**import** android.content.Intent;  
**import** android.net.Uri;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.ImageButton;  
**import** com.karumi.dexter.Dexter;  
**import** com.karumi.dexter.MultiplePermissionsReport;  
**import** com.karumi.dexter.PermissionToken;  
**import** com.karumi.dexter.listener.PermissionRequest;  
**import** com.karumi.dexter.listener.multi.MultiplePermissionsListener;  
**import** java.util.List;  
**public class** MainActivity **extends** AppCompatActivity {  
 Button **btn1**,**btn2**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **btn1** = (Button) findViewById(R.id.***btn1***);  
 **final** EditText editText = (EditText)findViewById(R.id.***urlText***);  
 Button btn = (Button) findViewById(R.id.***btnNavigate***);  
 Button btn2 = (Button) findViewById(R.id.***btnNavigate2***);  
  
 btn.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
  
 String url = **"https://www.google.com/search?q="** + editText.getText().toString();  
 Intent intent = **new** Intent(Intent.***ACTION\_VIEW***, Uri.*parse*(url));  
 startActivity(intent);  
 }  
 });  
 **btn1**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 Intent i = **new** Intent(getApplicationContext(),  
 MainActivity2.**class**);  
 startActivity(i);  
 }  
 });  
  
  
 btn2.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String url = **"https://www.youtube.com/results?search\_query="** + editText.getText().toString();  
 Intent in = **new** Intent(Intent.***ACTION\_VIEW***, Uri.*parse*(url));  
 startActivity(in);  
 }  
 });  
 }  
}

**MainActivity2.java**

**package** com.example.intent\_acitivity;  
  
**import** androidx.annotation.Nullable;  
**import** androidx.appcompat.app.AppCompatActivity;  
**import** android.Manifest;  
**import** android.content.Intent;  
**import** android.graphics.Bitmap;  
**import** android.graphics.BitmapFactory;  
**import** android.net.Uri;  
**import** android.os.Bundle;  
**import** android.provider.MediaStore;  
**import** android.text.format.Formatter;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.ImageButton;  
**import** android.widget.ImageView;  
**import** android.widget.Toast;  
**import** com.karumi.dexter.Dexter;  
**import** com.karumi.dexter.MultiplePermissionsReport;  
**import** com.karumi.dexter.PermissionToken;  
**import** com.karumi.dexter.listener.PermissionRequest;  
**import** com.karumi.dexter.listener.multi.MultiplePermissionsListener;  
**import** java.io.File;  
**import** java.io.FileNotFoundException;  
**import** java.io.InputStream;  
**import** java.util.List;  
**public class** MainActivity2 **extends** AppCompatActivity {  
 Button **btn1**;  
 Button **pickbtnn**;  
 ImageView **imgg**;  
 **public static final int *RESULT\_IMAGE***=1 ;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main2***);  
 **btn1** = (Button) findViewById(R.id.***btn2***);  
 **pickbtnn** = (Button) findViewById(R.id.***pickbtn***);  
 **imgg** = (ImageView) findViewById(R.id.***img***);  
 askPermission();  
 **btn1**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 Intent i = **new** Intent(getApplicationContext(),  
 MainActivity.**class**);  
 startActivity(i);  
 }  
 });  
 **pickbtnn**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 openGallery();  
 }  
 });  
 }  
 **private void** openGallery() {  
 Intent gallery = **new** Intent(Intent.***ACTION\_PICK***,  
 MediaStore.Images.Media.***INTERNAL\_CONTENT\_URI***);  
 startActivityForResult(gallery , ***RESULT\_IMAGE***);  
 }  
 **protected void** onActivityResult(**int** requestCode, **int** resultCode,  
 @Nullable Intent data) {  
 **super**.onActivityResult(requestCode, resultCode, data);  
 **if**(resultCode == ***RESULT\_OK***){  
 **final** Uri imguri =data.getData();*//to take data as uri* **try** {  
 *//to show image in image view uri have to convert into bitmap  
 // so first convert it into inputStream and then it convert into bitmap;* **final** InputStream imgstream = getContentResolver().openInputStream(imguri);*//this will convert in* **final** Bitmap selectImage = BitmapFactory.*decodeStream*(imgstream);*//this will convert in Bitmap.* **imgg**.setImageBitmap(selectImage);*//this will show that image in imageview.* } **catch** (FileNotFoundException e) {  
 e.printStackTrace();  
 Toast.*makeText*(**this**, **"Somthing Went Wrong!"**,  
 Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
 **else**{  
 Toast.*makeText*(**this**, **"No Image Selected!"**,  
 Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
 **private void** askPermission() {  
 Dexter.*withContext*(**this**)  
 .withPermissions(Manifest.permission.***READ\_EXTERNAL\_STORAGE***,  
 Manifest.permission.***WRITE\_EXTERNAL\_STORAGE***)  
 .withListener(**new** MultiplePermissionsListener() {  
 @Override  
 **public void** onPermissionsChecked(MultiplePermissionsReport multiplePermissionsReport) {  
 }  
 @Override  
 **public void** onPermissionRationaleShouldBeShown(List<PermissionRequest> list,  
 PermissionToken permissionToken) {  
 permissionToken.continuePermissionRequest();  
 }  
 }).check();  
 }  
}

**Output**

  

 