**Practical No.03**

**Aim**: Program to create an activity using fragment in android.

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**Class:** BCA-III Sem-V

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**Code:**

**Activity\_main.java**

ackage com.example.fragment;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.fragment.app.Fragment;  
import androidx.fragment.app.FragmentTransaction;  
  
import android.os.Bundle;  
import android.widget.FrameLayout;  
  
import com.google.android.material.tabs.TabLayout;  
  
public class MainActivity extends AppCompatActivity {  
  
 FrameLayout frameLayout;  
 TabLayout tabLayout;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 frameLayout=(FrameLayout) findViewById(R.id.*frameLayout*);  
 tabLayout=(TabLayout) findViewById(R.id.*tabLayout*);  
  
 getSupportFragmentManager().beginTransaction().replace(R.id.*frameLayout*,new FirstFragment())  
 .addToBackStack(null)  
 .commit();  
  
 tabLayout.setOnTabSelectedListener(new TabLayout.OnTabSelectedListener() {  
 @Override  
 public void onTabSelected(TabLayout.Tab tab) {  
 Fragment fragment=null;  
 switch (tab.getPosition()){  
 case 0:  
 fragment=new FirstFragment();  
 case 1:  
 fragment=new SecondFragment();  
 case 2:  
 fragment=new ThirdFragment();  
 }  
 getSupportFragmentManager().beginTransaction().replace(R.id.*frameLayout*,fragment)  
 .setTransition(FragmentTransaction.*TRANSIT\_FRAGMENT\_OPEN*)  
 .commit();  
 }  
  
 @Override  
 public void onTabUnselected(TabLayout.Tab tab) {  
  
 }  
  
 @Override  
 public void onTabReselected(TabLayout.Tab tab) {  
  
 }  
 });  
 }

}

**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"  
 tools:context=".MainActivity">  
  
  
 <com.google.android.material.tabs.TabLayout  
 android:id="@+id/tabLayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:background="#075E53"  
 app:tabIndicatorColor="@color/white"  
 app:tabSelectedTextColor="@color/white"  
 >  
  
  
 <com.google.android.material.tabs.TabItem  
 android:id="@+id/tab1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="First"  
 />  
  
  
 <com.google.android.material.tabs.TabItem  
 android:id="@+id/tab2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Second"  
 />  
  
  
 <com.google.android.material.tabs.TabItem  
 android:id="@+id/tab3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Third"  
 />  
  
  
 </androidx.constraintlayout.widget.ConstraintLayout>  
  
 <FrameLayout  
 android:id="@+id/frameLayout"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent" />  
  
</LinearLayout>

Kts.app

plugins **{** id("com.android.application")  
**}***android* **{** namespace = "com.example.fragment"  
 compileSdk = 34  
  
 defaultConfig **{** applicationId = "com.example.fragment"  
 minSdk = 24  
 targetSdk = 34  
 versionCode = 1  
 versionName = "1.0"  
  
 testInstrumentationRunner = "androidx.test.runner.AndroidJUnitRunner"  
 **}** buildTypes **{** *release* **{** isMinifyEnabled = false  
 proguardFiles(getDefaultProguardFile("proguard-android-optimize.txt"), "proguard-rules.pro")  
 **}  
 }** compileOptions **{** sourceCompatibility = JavaVersion.*VERSION\_1\_8* targetCompatibility = JavaVersion.*VERSION\_1\_8* **}  
}***dependencies* **{** val fragment\_version="1.6.1"  
 *implementation*("androidx.appcompat:appcompat:1.7.0")  
 *implementation*("com.google.android.material:material:1.12.0")  
 *implementation*("androidx.constraintlayout:constraintlayout:2.1.4")  
 *testImplementation*("junit:junit:4.13.2")  
 *androidTestImplementation*("androidx.test.ext:junit:1.2.1")  
 *androidTestImplementation*("androidx.test.espresso:espresso-core:3.6.1")  
 *implementation*("androidx.fragment:fragment:$fragment\_version")  
**}**

**First Fragment**

<?xml version="1.0" encoding="utf-8"?>  
<FrameLayout 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=".FirstFragment">  
  
 <!-- *TODO: Update blank fragment layout* -->  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:textSize="24dp"  
 android:textAlignment="center"  
 android:text="first Fragment" />  
  
</FrameLayout>

**Second Fragment**

?xml version="1.0" encoding="utf-8"?>  
<FrameLayout 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=".SecondFragment">  
  
 <!-- *TODO: Update blank fragment layout* -->  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:textSize="24dp"  
 android:textAlignment="center"  
 android:text="second Fragment" />  
  
</FrameLayout>

**Third Fragment**

<?xml version="1.0" encoding="utf-8"?>  
<FrameLayout 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=".ThirdFragment">  
  
 <!-- *TODO: Update blank fragment layout* -->  
 <TextView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:textSize="24dp"  
 android:textAlignment="center"  
 android:text="third Fragment" />  
  
  
</FrameLayout>

**Output:**





