**Android Programming**

**SLOT :- L29+L30**

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**Theory Programs:-**

**Billing System:-**

**Activity.xml:-**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.billing\_system.MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="16dp"  
 android:text="Bill Calculator"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 android:id="@+id/textView"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"** />  
  
 <**CheckBox  
 android:id="@+id/checkBox"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="27dp"  
 android:text="Idly"  
 android:layout\_below="@+id/textView6"  
 android:layout\_alignLeft="@+id/textView2"  
 android:layout\_alignStart="@+id/textView2"  
 android:layout\_marginLeft="42dp"  
 android:layout\_marginStart="42dp"** />  
  
 <**CheckBox  
 android:id="@+id/checkBox2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/checkBox"  
 android:layout\_alignStart="@+id/checkBox"  
 android:layout\_below="@+id/checkBox"  
 android:layout\_marginTop="33dp"  
 android:text="Dosa"** />  
  
 <**CheckBox  
 android:id="@+id/checkBox3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Pongal"  
 android:layout\_below="@+id/editText3"  
 android:layout\_alignLeft="@+id/checkBox2"  
 android:layout\_alignStart="@+id/checkBox2"  
 android:layout\_marginTop="31dp"** />  
  
 <**ToggleButton  
 android:id="@+id/toggleButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="51dp"  
 android:text="ToggleButton"  
 android:layout\_marginLeft="20dp"  
 android:layout\_marginStart="20dp"  
 android:layout\_below="@+id/checkBox3"  
 android:layout\_toRightOf="@+id/checkBox"  
 android:layout\_toEndOf="@+id/checkBox"** />  
  
 <**TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Include VAT"  
 android:layout\_alignBaseline="@+id/toggleButton"  
 android:layout\_alignBottom="@+id/toggleButton"  
 android:layout\_toLeftOf="@+id/textView"  
 android:layout\_toStartOf="@+id/textView"** />  
  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Bill Amount:"  
 android:layout\_alignParentBottom="true"  
 android:layout\_alignLeft="@+id/textView2"  
 android:layout\_alignStart="@+id/textView2"  
 android:layout\_marginBottom="54dp"** />  
  
 <**TextView  
 android:id="@+id/textView4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignBaseline="@+id/textView3"  
 android:layout\_alignBottom="@+id/textView3"  
 android:layout\_marginLeft="18dp"  
 android:layout\_marginStart="18dp"  
 android:layout\_toEndOf="@+id/checkBox3"  
 android:layout\_toRightOf="@+id/checkBox3"** />  
  
 <**TextView  
 android:id="@+id/textView5"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Rs."  
 android:layout\_alignBaseline="@+id/textView4"  
 android:layout\_alignBottom="@+id/textView4"  
 android:layout\_toRightOf="@+id/textView4"  
 android:layout\_toEndOf="@+id/textView4"  
 android:layout\_marginLeft="11dp"  
 android:layout\_marginStart="11dp"** />  
  
 <**TextView  
 android:id="@+id/textView6"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="22dp"  
 android:text="Items"  
 android:layout\_below="@+id/textView"  
 android:layout\_alignRight="@+id/checkBox"  
 android:layout\_alignEnd="@+id/checkBox"** />  
  
 <**TextView  
 android:id="@+id/textView7"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="No's"  
 android:layout\_alignBaseline="@+id/textView6"  
 android:layout\_alignBottom="@+id/textView6"  
 android:layout\_alignRight="@+id/textView"  
 android:layout\_alignEnd="@+id/textView"** />  
  
 <**EditText  
 android:id="@+id/editText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:layout\_alignTop="@+id/checkBox"  
 android:layout\_alignLeft="@+id/textView4"  
 android:layout\_alignStart="@+id/textView4"  
 android:layout\_alignRight="@+id/textView5"  
 android:layout\_alignEnd="@+id/textView5"** />  
  
 <**EditText  
 android:id="@+id/editText3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignEnd="@+id/editText"  
 android:layout\_alignRight="@+id/editText"  
 android:layout\_alignTop="@+id/checkBox2"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:layout\_alignLeft="@+id/editText"  
 android:layout\_alignStart="@+id/editText"** />  
  
 <**EditText  
 android:id="@+id/editText4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_above="@+id/toggleButton"  
 android:layout\_alignEnd="@+id/editText3"  
 android:layout\_alignLeft="@+id/editText3"  
 android:layout\_alignRight="@+id/editText3"  
 android:layout\_alignStart="@+id/editText3"  
 android:ems="10"  
 android:inputType="textPersonName"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Generate Bill"  
 android:layout\_below="@+id/toggleButton"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="11dp"** />  
  
</**RelativeLayout**>

**MainActivity.java**

**package** com.example.karthiksekaran.billing\_system;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.util.StringBuilderPrinter;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.CheckBox;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
**import** android.widget.ToggleButton;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener {  
  
 EditText item1,item2,item3;  
 Button calculate;  
 ToggleButton VAT;  
 CheckBox c1,c2,c3;  
 TextView result;  
 Double compute=0.0, VAT\_compute;  
 Double i1,i2,i3;  
 Double i = 10.00, j = 30.00, k = 35.00;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 calculate = (Button)findViewById(R.id.button);  
 calculate.setOnClickListener(**this**);  
 }  
 @Override  
 **public void** onClick(View v)  
 {  
 **try** {  
 **c1** = (CheckBox)findViewById(R.id.***checkBox***);  
 **c2** = (CheckBox)findViewById(R.id.***checkBox2***);  
 **c3** = (CheckBox)findViewById(R.id.***checkBox3***);  
 **VAT** = (ToggleButton)findViewById(R.id.***toggleButton***);  
 **result** = (TextView)findViewById(R.id.***textView4***);  
 **item1** = (EditText)findViewById(R.id.***editText***);  
 **item2** = (EditText)findViewById(R.id.***editText3***);  
 **item3** = (EditText)findViewById(R.id.***editText4***);  
 **i1** = Double.*parseDouble*(**item1**.getText().toString());  
 **i2** = Double.*parseDouble*(**item2**.getText().toString());  
 **i3** = Double.*parseDouble*(**item3**.getText().toString());  
 **if**(**c1**.isChecked())  
 {  
 **compute** +=**i**\***i1**;  
 }  
 **if**(**c2**.isChecked())  
 {  
 **compute** += **j**\***i2**;  
 }  
 **if**(**c3**.isChecked())  
 {  
 **compute** += **k**\***i3**;  
 }  
 *//StringBuilder stringBuilder = new StringBuilder();* String vat\_calc = **VAT**.getText().toString();  
 **if**(vat\_calc.equals(**"ON"**))  
 {  
 **VAT\_compute** = **compute**+20;  
 }  
 *// result.setText(VAT\_compute.toString());* Toast.*makeText*(getApplicationContext(),**"Total Amount:"**+**VAT\_compute**.toString(),Toast.***LENGTH\_LONG***).show();  
 }  
 **catch** (Exception e)  
 {  
 System.***out***.println(**"Exception:"**+e);  
 }  
 }  
}

**Database:-**

**Activity.xml:**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.database.MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="17dp"  
 android:text="Student Database"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 android:id="@+id/textView"** />  
  
 <**EditText  
 android:id="@+id/editText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/textView"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="33dp"  
 android:ems="10"  
 android:inputType="textPersonName"** />  
  
 <**EditText  
 android:id="@+id/editText2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/editText"  
 android:layout\_alignStart="@+id/editText"  
 android:layout\_below="@+id/editText"  
 android:layout\_marginTop="32dp"  
 android:ems="10"  
 android:inputType="textPersonName"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/editText2"  
 android:layout\_alignStart="@+id/editText2"  
 android:layout\_below="@+id/editText2"  
 android:layout\_marginTop="65dp"  
 android:text="Create"  
 android:onClick="create"**/>  
  
 <**Button  
 android:id="@+id/button2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignBaseline="@+id/button"  
 android:layout\_alignBottom="@+id/button"  
 android:layout\_alignEnd="@+id/editText2"  
 android:layout\_alignRight="@+id/editText2"  
 android:text="Insert"  
 android:onClick="insert"**/>  
  
 <**Button  
 android:id="@+id/button3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/button"  
 android:layout\_alignStart="@+id/button"  
 android:layout\_below="@+id/button"  
 android:layout\_marginTop="57dp"  
 android:text="Update"  
 android:onClick="update"**/>  
  
 <**Button  
 android:id="@+id/button4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignEnd="@+id/button2"  
 android:layout\_alignRight="@+id/button2"  
 android:layout\_alignTop="@+id/button3"  
 android:text="Delete"  
 android:onClick="delete"**/>  
  
 <**TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="ID"  
 android:layout\_alignBaseline="@+id/editText"  
 android:layout\_alignBottom="@+id/editText"  
 android:layout\_toLeftOf="@+id/editText"  
 android:layout\_toStartOf="@+id/editText"  
 android:layout\_marginRight="34dp"  
 android:layout\_marginEnd="34dp"** />  
  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Name"  
 android:layout\_alignBaseline="@+id/editText2"  
 android:layout\_alignBottom="@+id/editText2"  
 android:layout\_alignLeft="@+id/textView2"  
 android:layout\_alignStart="@+id/textView2"** />  
  
</**RelativeLayout**>

**MainActivity.java**

**package** com.example.karthiksekaran.database;  
  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.Toast;  
  
**import** java.io.File;  
**import** java.io.InterruptedIOException;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 EditText id,name;  
 Button create,insert,update,delete;  
 SQLiteDatabase database;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 create = (Button)findViewById(R.id.button);  
 insert = (Button)findViewById(R.id.button2);  
 update = (Button)findViewById(R.id.button3);  
 delete = (Button)findViewById(R.id.button4);  
 }  
 **public void** create(View v)  
 {  
 database = **this**.openOrCreateDatabase(**"StudDB"**,MODE\_PRIVATE,**null**);  
 database.execSQL(**"create table if not exists student(id integer,name varchar)"**);  
 File db = getApplicationContext().getDatabasePath(**"StudDB"**);  
 **if**(db.exists())  
 {  
 Toast.makeText(getApplicationContext(),**"DB Found"**, Toast.LENGTH\_LONG).show();  
 }  
 **else** {  
 Toast.*makeText*(getApplicationContext(),**"DB Not Found"**, Toast.***LENGTH\_LONG***).show();  
 }  
 }  
 **public void** insert(View v)  
 {  
 **id** = (EditText)findViewById(R.id.***editText***);  
 **name** = (EditText)findViewById(R.id.***editText2***);  
 Integer id1;  
 String name1;  
 id1 = Integer.*getInteger*(**id**.getText().toString());  
 name1 = **name**.getText().toString();  
 **database**.execSQL(**"insert into student (id,name) values('"**+id1+**"','"**+name1+**"');"**);  
 Toast.*makeText*(getApplicationContext(),**"Query Inserted Successfully"**, Toast.***LENGTH\_LONG***).show();  
 }  
 **public void** update(View v)  
 {  
 String query = **"select \* from student"**;  
 Cursor cursor = **database**.rawQuery(query,**null**);  
 **int** idcol = cursor.getColumnIndex(**"id"**);  
 **int** names = cursor.getColumnIndex(**"name"**);  
 cursor.moveToFirst();  
 **if**((cursor!=**null**)||(cursor.getCount()>0))  
 {  
 **do** {  
 **int** idf = cursor.getInt(idcol);  
 String namef = cursor.getString(names);  
 Toast.*makeText*(getApplicationContext(),**"ID:"**+idf+**"Name:"**+namef, Toast.***LENGTH\_LONG***).show();  
 }**while** (cursor.moveToNext());  
  
 }  
 }  
 **public void** delete(View v)  
 {  
 **database**.execSQL(**"delete from student where id = "**+0+**""**);  
 Toast.*makeText*(getApplicationContext(),**"Deleted"**, Toast.***LENGTH\_LONG***).show();  
  
 }  
}

**Fragments:-**

**Activity.xml:-**

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout 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:id="@+id/fragment1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.fragments.MainActivity"**>  
  
 <**fragment  
 android:id="@+id/fragment5"  
 android:name="com.example.karthiksekaran.fragments.Fragment1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="112dp"** />  
  
</**RelativeLayout**>

MainActivity.java

**package** com.example.karthiksekaran.fragments;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 }  
}

activity\_fragment.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout 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:id="@+id/fragment1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.fragments.Fragment1"**>  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentRight="true"  
 android:layout\_centerVertical="true"  
 android:layout\_marginEnd="132dp"  
 android:layout\_marginRight="132dp"  
 android:text="Fragment - 1"** />  
  
 <**TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_above="@+id/button"  
 android:layout\_alignLeft="@+id/button"  
 android:layout\_alignStart="@+id/button"  
 android:layout\_marginBottom="100dp"  
 android:text="This is Fragment - 1"** />  
</**RelativeLayout**>

Activity\_fragment.java

**package** com.example.karthiksekaran.fragments;  
  
**import** android.support.annotation.Nullable;  
**import** android.support.v4.app.Fragment;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
  
**public class** Fragment1 **extends** Fragment{  
 @Nullable  
 @Override  
 **public** View onCreateView(LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {  
 **return** inflater.inflate(R.layout.***activity\_fragment1***, container, **false**);  
 }  
}

startActivityforResultL-

activity.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.intent\_final.MainActivity"**>  
  
 <**TextView  
 android:id="@+id/text"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="163dp"  
 android:text="Welcome"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"  
 android:text="Receive"** />  
</**RelativeLayout**>

MainActivity,java

**package** com.example.karthiksekaran.intent\_final;  
  
**import** android.content.Intent;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener {  
TextView receive;  
 Button send;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 send = (Button)findViewById(R.id.button);  
 receive = (TextView)findViewById(R.id.text);  
 send.setOnClickListener(**this**);  
 }  
  
 @Override  
 **public void** onClick(View v) {  
 Intent intent = **new** Intent(**this**,Activity\_Two.**class**);  
 startActivityForResult(intent,100);  
 Toast.makeText(getApplicationContext(),**"Clicked"**,Toast.LENGTH\_LONG).show();  
 }  
  
 @Override  
 **protected void** onActivityResult(**int** requestCode, **int** resultCode, Intent data) {  
 **super**.onActivityResult(requestCode, resultCode, data);  
 **if**(requestCode == 100)  
 {  
 String res = data.getStringExtra(**"Message"**);  
 receive.setText(res);  
 }  
 }  
  
}

Activity\_two.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.intent\_final.Activity\_Two"**>  
  
 <**EditText  
 android:id="@+id/editText"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="153dp"  
 android:ems="10"  
 android:inputType="textPersonName"** />  
  
 <**Button  
 android:id="@+id/button2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/editText"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="59dp"  
 android:text="Send"** />  
</**RelativeLayout**>

Activity\_two.java

**package** com.example.karthiksekaran.intent\_final;  
  
**import** android.content.Intent;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
  
**public class** Activity\_Two **extends** AppCompatActivity **implements** View.OnClickListener {  
EditText **greet**;  
 Button **send**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_\_two***);  
 **send** = (Button)findViewById(R.id.***button2***);  
 **greet** = (EditText)findViewById(R.id.***editText***);  
 **send**.setOnClickListener(**this**);  
 }  
  
 @Override  
 **public void** onClick(View v) {  
 String greeting = **greet**.getText().toString();  
 Intent intent = **new** Intent();  
 intent.putExtra(**"Message"**,greeting);  
 setResult(100,intent);  
 finish();  
 }  
}

Implicit Intent:-

Activity\_main.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.implicit\_intent.MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="116dp"  
 android:text="Implicit Intent"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 android:id="@+id/textView"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="73dp"  
 android:text="Make a Call"  
 android:layout\_below="@+id/textView"  
 android:layout\_toLeftOf="@+id/button2"  
 android:layout\_toStartOf="@+id/button2"  
 android:layout\_marginRight="46dp"  
 android:layout\_marginEnd="46dp"  
 android:onClick="call"**/>  
  
 <**Button  
 android:id="@+id/button2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="View Contacts"  
 android:layout\_alignBaseline="@+id/button"  
 android:layout\_alignBottom="@+id/button"  
 android:layout\_alignParentRight="true"  
 android:layout\_alignParentEnd="true"  
 android:layout\_marginRight="37dp"  
 android:layout\_marginEnd="37dp"  
 android:onClick="contacts"**/>  
  
 <**Button  
 android:id="@+id/button3"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignLeft="@+id/button"  
 android:layout\_alignStart="@+id/button"  
 android:layout\_below="@+id/button"  
 android:layout\_marginTop="55dp"  
 android:text="Open Web"  
 android:onClick="web"**/>  
  
 <**Button  
 android:id="@+id/button4"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Open Google Maps"  
 android:layout\_alignBaseline="@+id/button3"  
 android:layout\_alignBottom="@+id/button3"  
 android:layout\_alignLeft="@+id/button2"  
 android:layout\_alignStart="@+id/button2"  
 android:onClick="maps"**/>  
  
</**RelativeLayout**>

MainActivity.java

**package** com.example.karthiksekaran.implicit\_intent;  
  
**import** android.content.Intent;  
**import** android.net.Uri;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
  
**public class** MainActivity **extends** AppCompatActivity{  
 Button call,contacts,web,maps;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 call = (Button)findViewById(R.id.button);  
 contacts = (Button)findViewById(R.id.button2);  
 web = (Button)findViewById(R.id.button3);  
 maps = (Button)findViewById(R.id.button4);  
 }  
  
 **public void** call(View v)  
 {  
 Intent intent = **new** Intent(Intent.ACTION\_CALL, Uri.parse(**"tel:9597195110"**));  
 startActivity(intent);  
 }  
 **public void** contacts(View v)  
 {  
 Intent intent = **new** Intent(Intent.ACTION\_DIAL, Uri.parse(**"tel:7845511897"**));  
 startActivity(intent);  
 }  
 **public void** web(View v)  
 {  
 Intent intent = **new** Intent(Intent.ACTION\_VIEW, Uri.parse(**"https://www.google.com"**));  
 startActivity(intent);  
 }  
 **public void** maps(View v)  
 {  
 Intent intent = **new** Intent(Intent.ACTION\_VIEW,Uri.parse(**"geo:0,0?q=india gate"**));  
 startActivity(intent);  
 }  
}

Android\_Manifest.xml:-

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.karthiksekaran.implicit\_intent"**>  
 <**uses-permission android:name="android.permission.CALL\_PHONE"**></**uses-permission**>  
 <**uses-permission android:name="android.permission.INTERNET"**></**uses-permission**>  
 <**uses-permission android:name="android.permission.READ\_PHONE\_STATE"**></**uses-permission**>  
 <**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/AppTheme"**>  
 <**activity android:name=".MainActivity"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
 </**application**>  
  
</**manifest**>

ListAdapter:-

Activity.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.list\_adapter.MainActivity"**>  
  
 <**ListView  
 android:id="@+id/listview"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_alignParentTop="true"** />  
  
</**RelativeLayout**>

MainActivity.java

**package** com.example.karthiksekaran.list\_adapter;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.AdapterView;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.ListView;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** AdapterView.OnItemClickListener {  
 ListView listView;  
 String[] pl = {**"C"**,**"C++"**,**"Java"**,**"Python"**,**"Javascript"**};  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 listView = (ListView)findViewById(R.id.listview);  
 ArrayAdapter adapter = **new** ArrayAdapter(getApplicationContext(),android.R.layout.simple\_list\_item\_activated\_1,pl);  
 listView.setAdapter(adapter);  
 listView.setOnItemClickListener(**this**);  
 }  
  
 @Override  
 **public void** onItemClick(AdapterView<?> parent, View view, **int** position, **long** id) {  
 Toast.makeText(getApplicationContext(),**"Item Clicked"**+ position,Toast.LENGTH\_LONG).show();  
 }  
}

Spinner:-

Activity.xml:-

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.spinner.MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="106dp"  
 android:text="Spinner"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 android:id="@+id/textView"** />  
  
 <**Spinner  
 android:id="@+id/spinner"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentLeft="true"  
 android:layout\_alignParentStart="true"  
 android:layout\_below="@+id/textView"  
 android:layout\_marginTop="74dp"** />  
  
</**RelativeLayout**>

MainActivity.java

**package** com.example.karthiksekaran.spinner;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.AdapterView;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.Spinner;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** AdapterView.OnItemSelectedListener {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 Spinner spinner = (Spinner)findViewById(R.id.spinner);  
 String[] pl = {**"C"**,**"C++"**,**"Java"**,**"Python"**,**"Javascript"**};  
 ArrayAdapter arrayAdapter = **new** ArrayAdapter(**this**,R.layout.support\_simple\_spinner\_dropdown\_item,pl);  
 spinner.setAdapter(arrayAdapter);  
 arrayAdapter.setDropDownViewResource(R.layout.support\_simple\_spinner\_dropdown\_item);  
 spinner.setOnItemSelectedListener(**this**);  
 }  
 @Override  
 **public void** onItemSelected(AdapterView<?> parent, View view, **int** position, **long** id) {  
 String name = parent.getParent().toString();  
 Toast.makeText(getApplicationContext(),**"Selected Programming Language is:"** +name,Toast.LENGTH\_LONG).show();  
 }  
  
 @Override  
 **public void** onNothingSelected(AdapterView<?> parent) {  
  
 }  
}

Notification:-

Activity.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.notification.MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="115dp"  
 android:text="Notification"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"  
 android:text="Send Notification"** />  
  
</**RelativeLayout**>

MainActivity.java

**package** com.example.karthiksekaran.notification;  
  
**import** android.app.Notification;  
**import** android.app.NotificationManager;  
**import** android.content.Intent;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener {  
 Button notify;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 notify = (Button)findViewById(R.id.button);  
 notify.setOnClickListener(**this**);  
 }  
  
 @Override  
 **public void** onClick(View v) {  
 Notification.Builder notification = **new** Notification.Builder(MainActivity.**this**).setContentText(**"Notification Alert"**)  
 .setContentTitle(**"Notification Built"**).setSmallIcon(R.drawable.image);  
 NotificationManager notificationManager = (NotificationManager)getSystemService(NOTIFICATION\_SERVICE);  
 notificationManager.notify(100,notification.build());  
  
 }  
}

Menu:-

Activity.xml:-

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.menu.MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Menu"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.224"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="82dp"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_centerHorizontal="true"  
 android:layout\_centerVertical="true"  
 android:text="Pop-UP"  
 android:onClick="popmenu"**/>  
  
</**RelativeLayout**>

MainActivity.java

**package** com.example.karthiksekaran.menu;  
  
**import** android.content.ClipData;  
**import** android.content.Intent;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.support.v7.widget.PopupMenu;  
**import** android.view.ContextMenu;  
**import** android.view.Menu;  
**import** android.view.MenuInflater;  
**import** android.view.MenuItem;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity {  
 Button popup;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
 }  
  
 @Override  
 **public void** onCreateContextMenu(ContextMenu menu, View v, ContextMenu.ContextMenuInfo menuInfo) {  
 MenuInflater m = getMenuInflater();  
 m.inflate(R.menu.mymenu, menu);  
 **super**.onCreateContextMenu(menu, v, menuInfo);  
 }  
  
 **public void** popmenu(View v) {  
 PopupMenu pop = **new** PopupMenu(**this**, v);  
 MenuInflater m = pop.getMenuInflater();  
 m.inflate(R.menu.mymenu, pop.getMenu());  
 pop.show();  
 }  
 @Override  
 **public boolean** onOptionsItemSelected(MenuItem item) {  
 **switch** (item.getItemId()) {  
 **case** (R.id.id1):  
 Toast.makeText(getApplicationContext(), **"Search"**, Toast.LENGTH\_LONG).show();  
 Intent intent = getPackageManager().getLaunchIntentForPackage(**"com.android.chrome"**);  
 startActivity(intent);  
 **break**;  
 **case** (R.id.id2):  
 Toast.makeText(getApplicationContext(), **"Sort"**, Toast.LENGTH\_LONG).show();  
 **break**;  
 **case** (R.id.id3):  
 Toast.makeText(getApplicationContext(), **"Find"**, Toast.LENGTH\_LONG).show();  
 **break**;  
 **default**:  
 Toast.makeText(getApplicationContext(), **"None"**, Toast.LENGTH\_LONG).show();  
 **break**;  
 }  
 **return super**.onOptionsItemSelected(item);  
 }  
}

BroadCast-Receiver:-

Activity.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**android.support.constraint.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="com.example.karthiksekaran.broadcast\_receiver.MainActivity"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
</**android.support.constraint.ConstraintLayout**>

MainActivity.java

**package** com.example.karthiksekaran.broadcast\_receiver;  
  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 }  
}

AndroidManifest.xml:-

*<?***xml version="1.0" encoding="utf-8"***?>*<**manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.karthiksekaran.broadcast\_receiver"**>  
  
 <**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/AppTheme"**>  
 <**activity android:name=".MainActivity"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.MAIN"** />  
  
 <**category android:name="android.intent.category.LAUNCHER"** />  
 </**intent-filter**>  
 </**activity**>  
  
 <**receiver  
 android:name=".MyReceiver"  
 android:enabled="true"  
 android:exported="true"**>  
 <**intent-filter**>  
 <**action android:name="android.intent.action.AIRPLANE\_MODE"**/>  
 </**intent-filter**>  
 </**receiver**>  
 </**application**>  
  
</**manifest**>

Broadcast.java

**package** com.example.karthiksekaran.broadcast\_receiver;  
  
**import** android.content.BroadcastReceiver;  
**import** android.content.Context;  
**import** android.content.Intent;  
**import** android.widget.Toast;  
  
**public class** MyReceiver **extends** BroadcastReceiver {  
  
 @Override  
 **public void** onReceive(Context context, Intent intent) {  
  
 Toast.*makeText*(context,**"Airplane Mode Changed"**, Toast.***LENGTH\_LONG***).show();  
 }  
}

Dynamic Fragments:

Activity.xml

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context="com.example.karthiksekaran.dynamics.MainActivity"**>  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Add"  
 tools:layout\_editor\_absoluteX="147dp"  
 tools:layout\_editor\_absoluteY="339dp"  
 android:layout\_marginBottom="195dp"  
 android:layout\_alignParentBottom="true"  
 android:layout\_centerHorizontal="true"** />  
  
 <**fragment  
 android:id="@+id/fragment"  
 android:name="android.support.v4.app.ListFragment"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 tools:layout\_editor\_absoluteX="163dp"  
 tools:layout\_editor\_absoluteY="123dp"  
 android:layout\_above="@+id/button"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginBottom="96dp"** />  
</**RelativeLayout**>

MainActivity.java

**package** com.example.karthiksekaran.dynamics;  
  
**import** android.graphics.Color;  
**import** android.support.v4.app.Fragment;  
**import** android.support.v4.app.FragmentManager;  
**import** android.support.v4.app.FragmentTransaction;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.RelativeLayout;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener {  
  
 Button **add**;  
 Fragment **f**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **add** = (Button)findViewById(R.id.***button***);  
 **add**.setOnClickListener(**this**);  
 }  
  
 @Override  
 **public void** onClick(View v) {  
 FragmentManager fragmentManager = getSupportFragmentManager();  
 FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();  
 **f** = **new** Fragment1();  
 fragmentTransaction.add(R.id.***fragment***,**f**);  
 fragmentTransaction.commit();  
 }  
}

activity\_fragment.xml

<**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="com.example.karthiksekaran.dynamics.Fragment1"**>  
  
 *<!--* ***TODO: Update blank fragment layout*** *-->* <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:text="@string/hello\_blank\_fragment"** />  
  
</**FrameLayout**>

Fragment1.java

**package** com.example.karthiksekaran.dynamics;  
  
  
**import** android.os.Bundle;  
**import** android.support.v4.app.Fragment;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
  
  
*/\*\*  
 \* A simple {****@link*** *Fragment1} subclass.  
 \*/***public class** Fragment1 **extends** Fragment {  
  
  
 **public** Fragment1() {  
 *// Required empty public constructor* }  
  
  
 @Override  
 **public** View onCreateView(LayoutInflater inflater, ViewGroup container,  
 Bundle savedInstanceState) {  
 *// Inflate the layout for this fragment* **return** inflater.inflate(R.layout.***fragment\_activity***, container, **false**);  
 }  
  
}