



Android Class

#Android Notes

Custom Listview In Android



Steps Of Creating Custom Listview

- Add new CustomListviewActivity in your project.
- Add Listview in activity_custom_listview.xml layout file.
- Add one more layout row_listiew.xml file in your project.
- In the row_listiew.xml file design your custom layout.
- Now in CustomListviewActivity.java file create object of Listview and initialize it.
- Create array of name and images that you want to display in listview.
- Add one more java class MyAdapter.java in your project.
- In MyAdapter.java file extends BaseAdapter class.

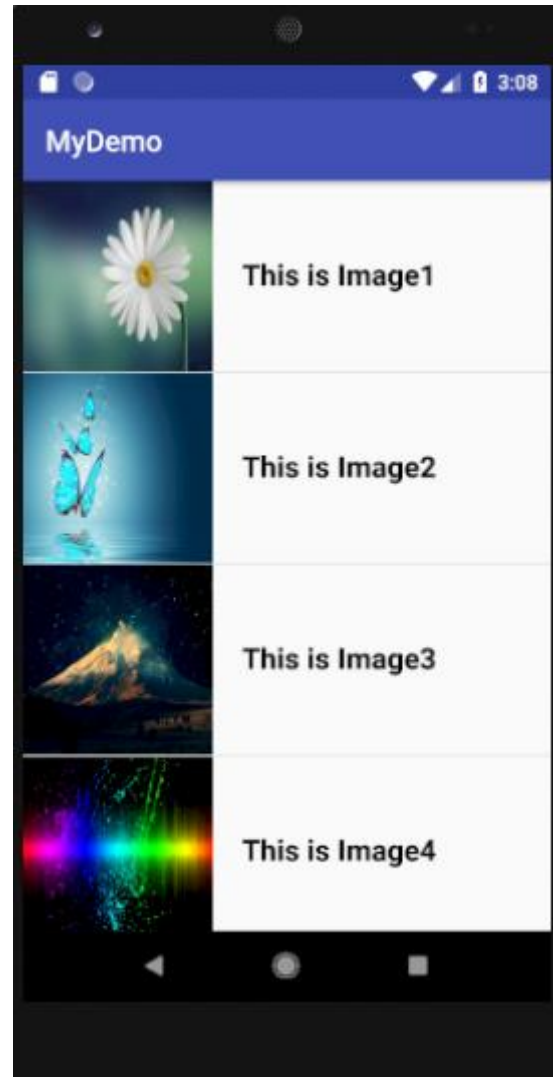


Cont...

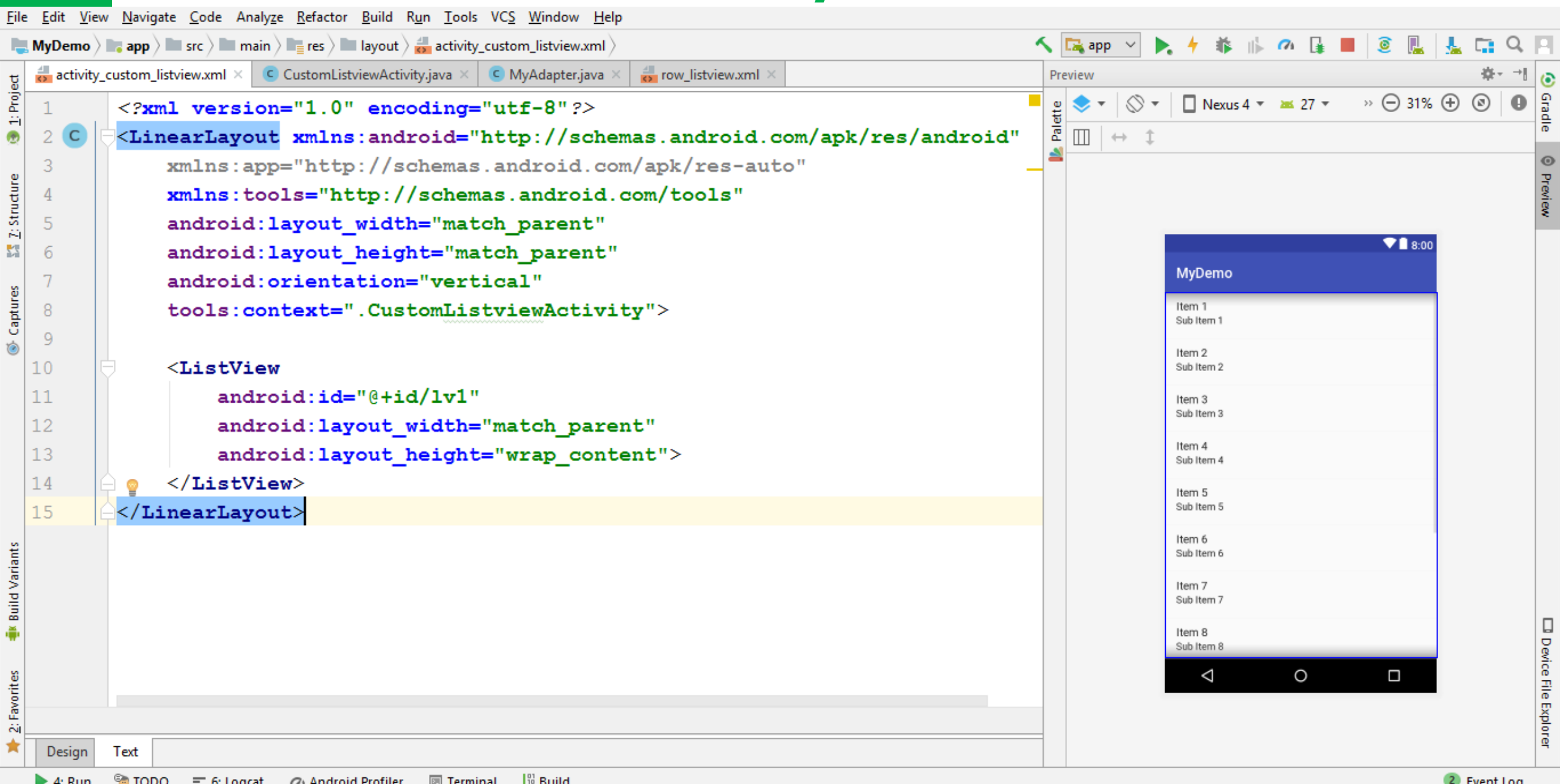
- Override getCount(),getItem(),getItemId() & getView() methods from the BaseAdapter class.
- Now define array of name and images,context and layoutInflater.
- Add constructor of MyAdapter class.
- In getCount() method set the length of listview.
- In getView() method inflate your custom layout.
- Initialize all component of row_listview.xml and set content in component.
- Now in CustomListviewActivity.java file create object of MyAdapter class and set adapter in listview.
- Run your application.

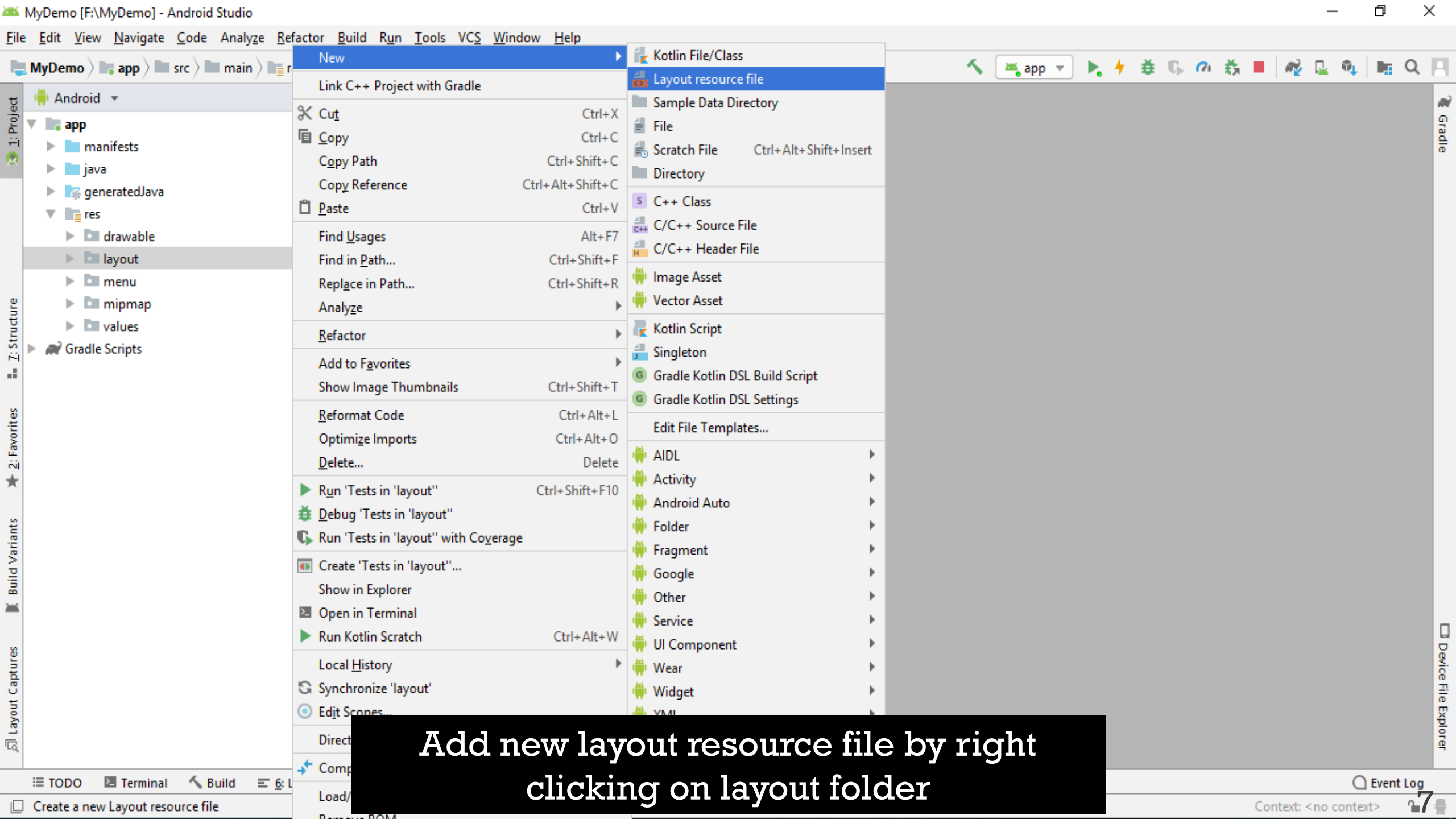


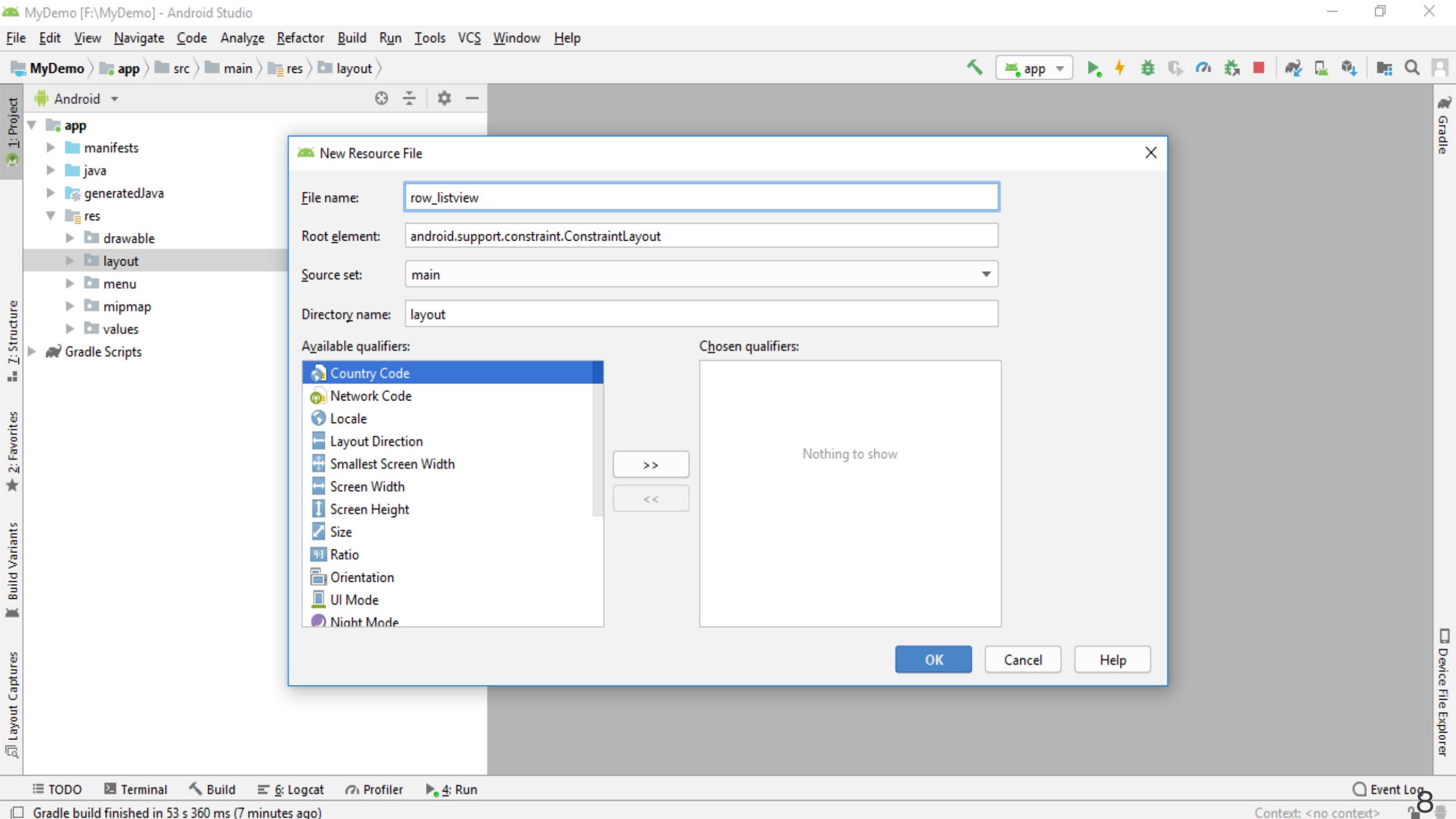
Output



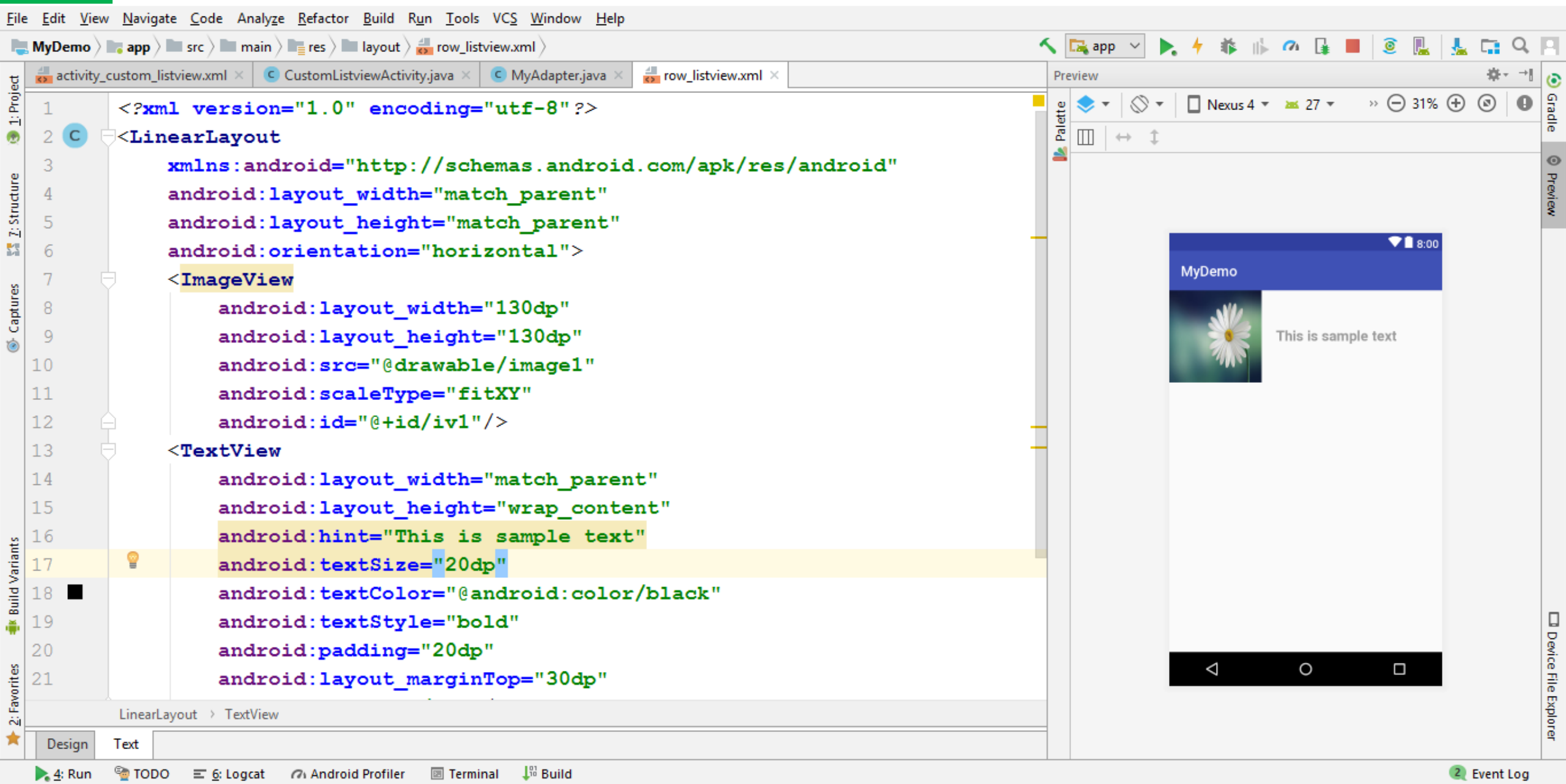
Screenshot Of activity_custom_listview.xml







Screenshot Of row_listview.xml



Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > res > layout > row_listview.xml

activity_custom_listview.xml CustomListViewActivity.java MyAdapter.java row_listview.xml

```
8      android:layout_width="130dp"
9      android:layout_height="130dp"
10     android:src="@drawable/image1"
11     android:scaleType="fitXY"
12     android:id="@+id/iv1"/>
13
14     <TextView
15         android:layout_width="match_parent"
16         android:layout_height="wrap_content"
17         android:hint="This is sample text"
18         android:textSize="20dp"
19         android:textColor="@android:color/black"
20         android:textStyle="bold"
21         android:padding="20dp"
22         android:layout_marginTop="30dp"
23         android:id="@+id/tv1"/>
24
25 </LinearLayout>
```

Preview

Nexus 4 27 31%

MyDemo

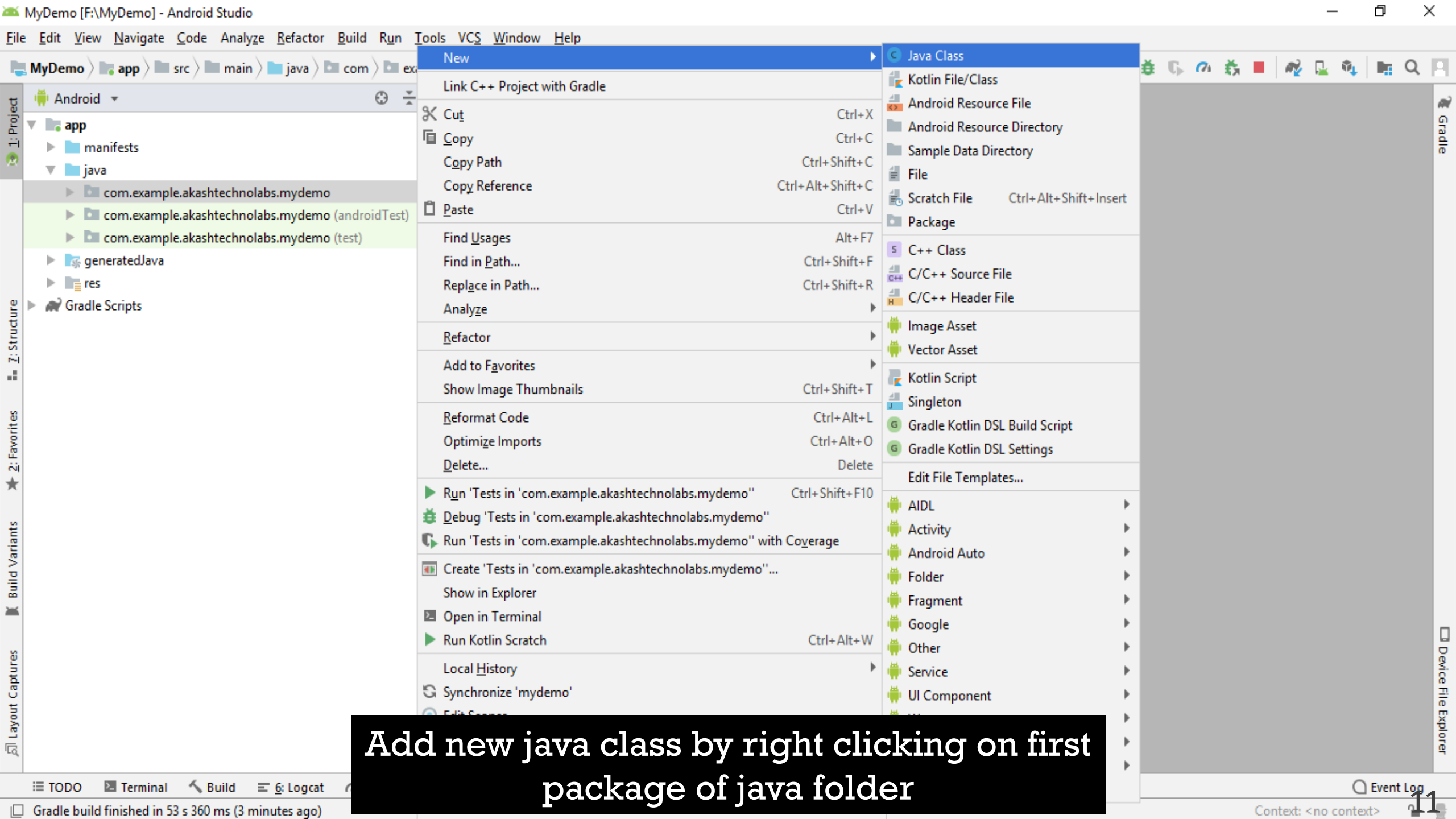
This is sample text

LinearLayout > TextView

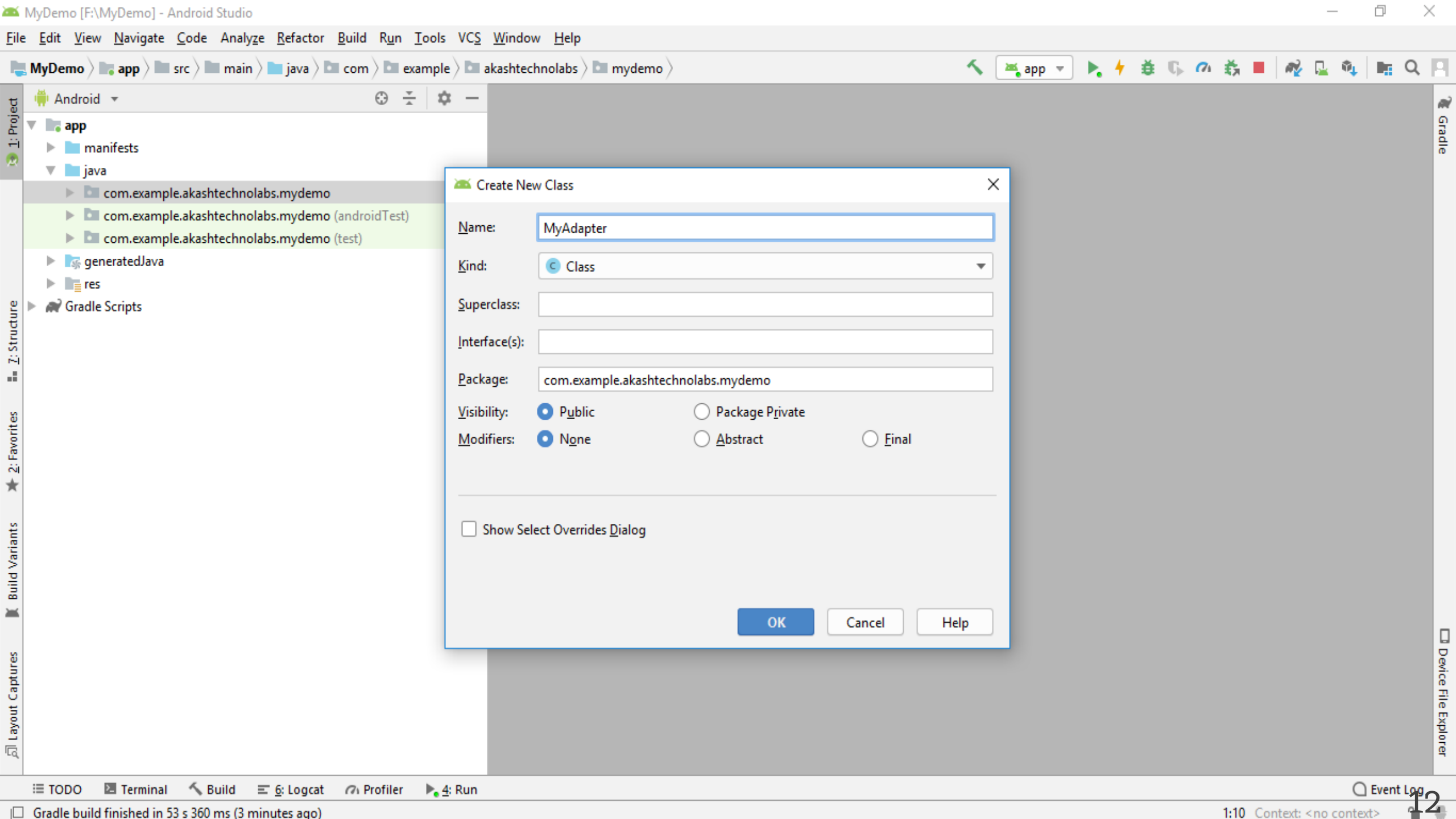
Design Text

Run TODO Logcat Android Profiler Terminal Build

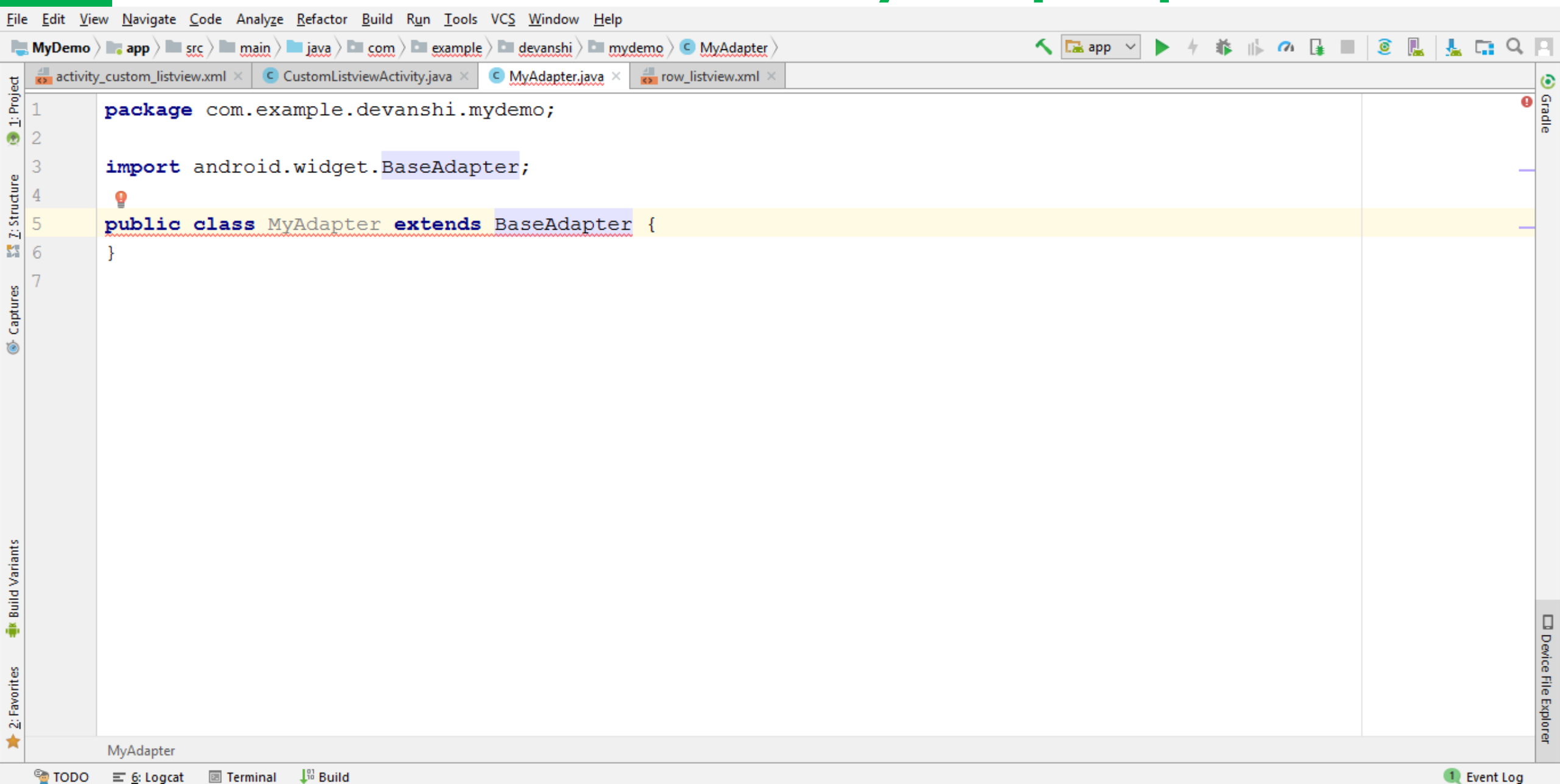
Event Log



Add new java class by right clicking on first package of java folder



Screenshot Of MyAdapter.java



Cont...

The screenshot shows the Android Studio IDE with the following components:

- Menu Bar:** File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help.
- Breadcrumb:** MyDemo > app > src > main > java > com > example > devanshi > mydemo > MyAdapter.
- Tab Bar:** activity_custom_listview.xml, CustomListViewActivity.java, MyAdapter.java (active), row_listview.xml.
- Editor:**

```
1 package com.example.devanshi.mydemo;
2
3 import android.widget.BaseAdapter;
4
5 public class MyAdapter extends BaseAdapter {
6
7
```

A context menu is open over line 5, showing the following options:

 - Implement methods
 - Make 'MyAdapter' abstract
 - Create Test
 - Create subclass
 - Unimplement Class
 - Annotate class 'BaseAdapter' as @Deprecated
- Left Sidebar:** Project (1: Project), Structure (2: Structure), Captures, Build Variants, Favorites (2: Favorites).
- Right Sidebar:** Gradle, Device File Explorer.
- Bottom Bar:** MyAdapter, TODO, Logcat, Terminal, Build, Event Log.

Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > java > com > example > devanshi > mydemo > MyAdapter

activity_custom_listview.xml x CustomListViewActivity.java x MyAdapter

```
1 package com.example.devanshi.mydemo;  
2  
3 import android.widget.BaseAdapter;  
4  
5 public class MyAdapter extends BaseAdapter  
6 {  
7
```

Select Methods to Implement

android.widget.Adapter

- getCount():int
- getItem(position:int):Object
- getItemId(position:int):long
- getView(position:int, convertView:View, parent:ViewGroup)

☐ Copy JavaDoc
☒ Insert @Override

OK Cancel

MyAdapter

TODO Logcat Terminal Build

Event Log

Cont...

The screenshot shows the Android Studio IDE with the following components:

- Menu Bar:** File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help.
- Breadcrumb:** MyDemo > app > src > main > java > com > example > devanshi > mydemo > MyAdapter >
- Tab Bar:** activity_custom_listview.xml, CustomListViewActivity.java, MyAdapter.java (selected), row_listview.xml.
- Code Editor:**

```
5  import android.widget.BaseAdapter,
6
7  public class MyAdapter extends BaseAdapter {
8      @Override
9      public int getCount() {
10         return 0;
11     }
12
13     @Override
14     public Object getItem(int position) {
15         return null;
16     }
17
18     @Override
19     public long getItemId(int position) {
20         return 0;
21     }
22
23     @Override
24     public View getView(int position, View convertView, ViewGroup parent) {
25         return null;
26     }
27 }
```
- Left Sidebar:** Project (1), Structure (2), Captures, Build Variants, Favorites (2).
- Right Sidebar:** Gradle, Device File Explorer.
- Bottom Bar:** MyAdapter > getCount(), TODO, Logcat, Terminal, Build, Event Log.

Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > java > com > example > devanshi > mydemo > MyAdapter

activity_custom_listview.xml CustomListViewActivity.java MyAdapter.java row_listview.xml

```
1 package com.example.devanshi.mydemo;
2
3 import ...
4
10
11 public class MyAdapter extends BaseAdapter {
12     Context context;
13     int[] image;
14     String name[];
15     LayoutInflater inflater;
16
17     public MyAdapter(Context context, int[] image, String[] name) {
18         this.context = context;
19         this.image = image;
20         this.name = name;
21         inflater = (LayoutInflater.from(context));
22     }
23
24     @Override
25     public int getCount() { return image.length; }
26
27
28     @Override
29     public Object getItem(int position) { return null; }
```

1: Project

2: Structure

Captures

Build Variants

2: Favorites

Gradle

Device File Explorer

Run

TODO

Logcat

Android Profiler

Terminal

Build

Event Log

Create Objects

Create public constructor

Return image array length

Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > java > com > example > devanshi > mydemo > MyAdapter > app

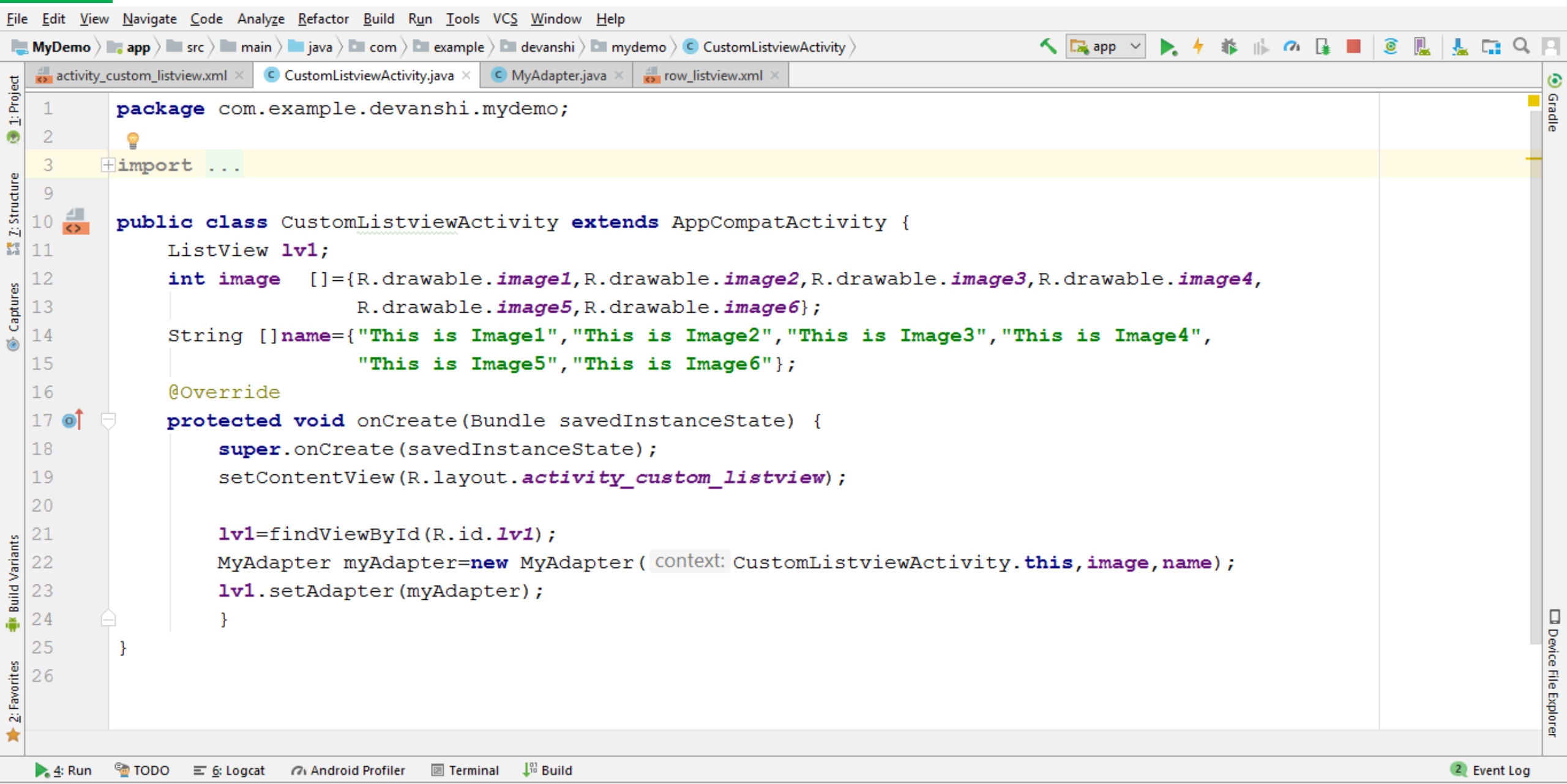
activity_custom_listview.xml x CustomListViewActivity.java x MyAdapter.java x row_listview.xml x

```
23
24 @Override
25 public int getCount() { return image.length; }
28
29 @Override
30 public Object getItem(int position) { return null; }
33
34 @Override
35 public long getItemId(int position) { return 0; }
38
39 @Override
40 public View getView(int position, View convertView, ViewGroup parent) {
41     //Inflate layout
42     convertView=layoutInflater.inflate(R.layout.row_listview, root: null);
43     //Initialize all component of row_listview.xml
44     ImageView imageView=(ImageView)convertView.findViewById(R.id.iv1);
45     TextView textView=(TextView)convertView.findViewById(R.id.tv1);
46     //Set content in component
47     imageView.setImageResource(image[position]);
48     textView.setText(name[position]);
49     return convertView;
50 }
51 }
```

MyAdapter

4: Run TODO 6: Logcat Android Profiler Terminal Build Event Log

Screenshot Of CustomListViewActivity.java



Output



Send Listview Data From One Activity TO Other Activity

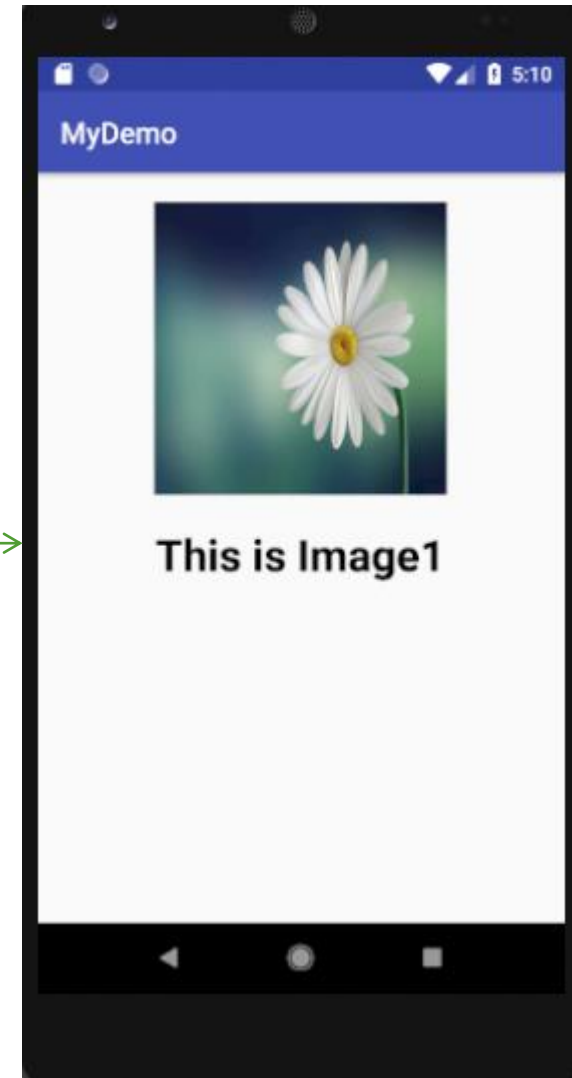
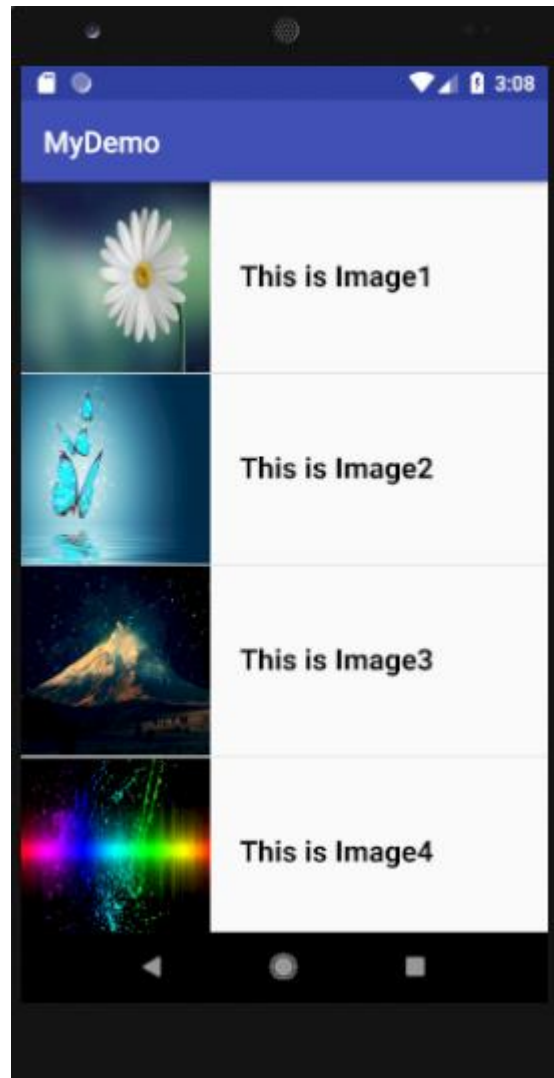


Steps Of Creating Custom Listview

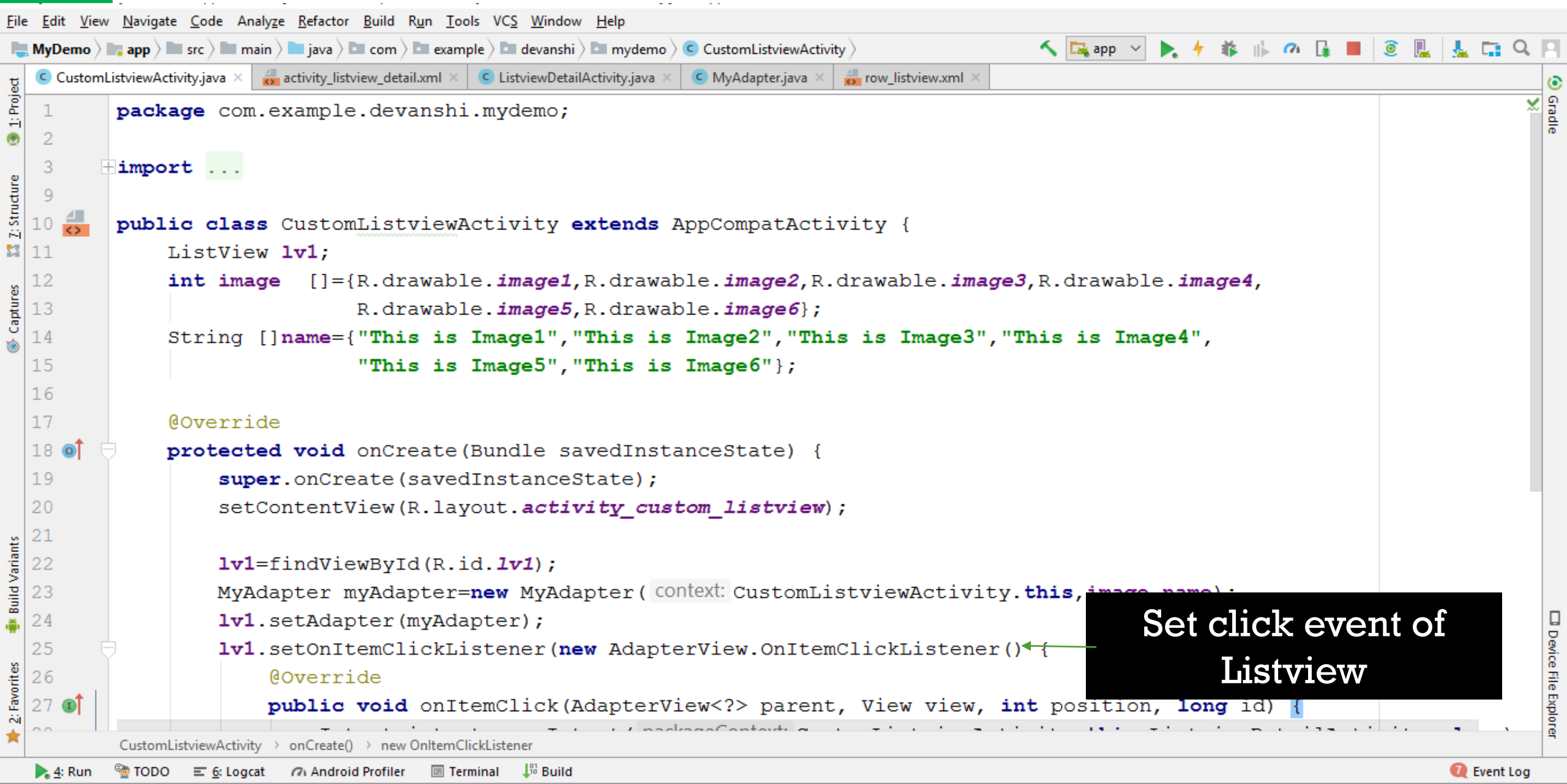
- Set Click event of ListView Control in CustomListviewActivity.java file.
- Use Intent to send selected data to other activity.
- Add new ListviewDetail Activity in your project.
- Add one ImageView and TextView in activity_listview_detail.xml layout file.
- Use getIntent() method of Intent class to get data from the other activity.
- And set that data to ImageView and TextView.



Output



Screenshot Of CustomListViewActivity.java



Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > java > com > example > devanshi > mydemo > CustomListViewActivity

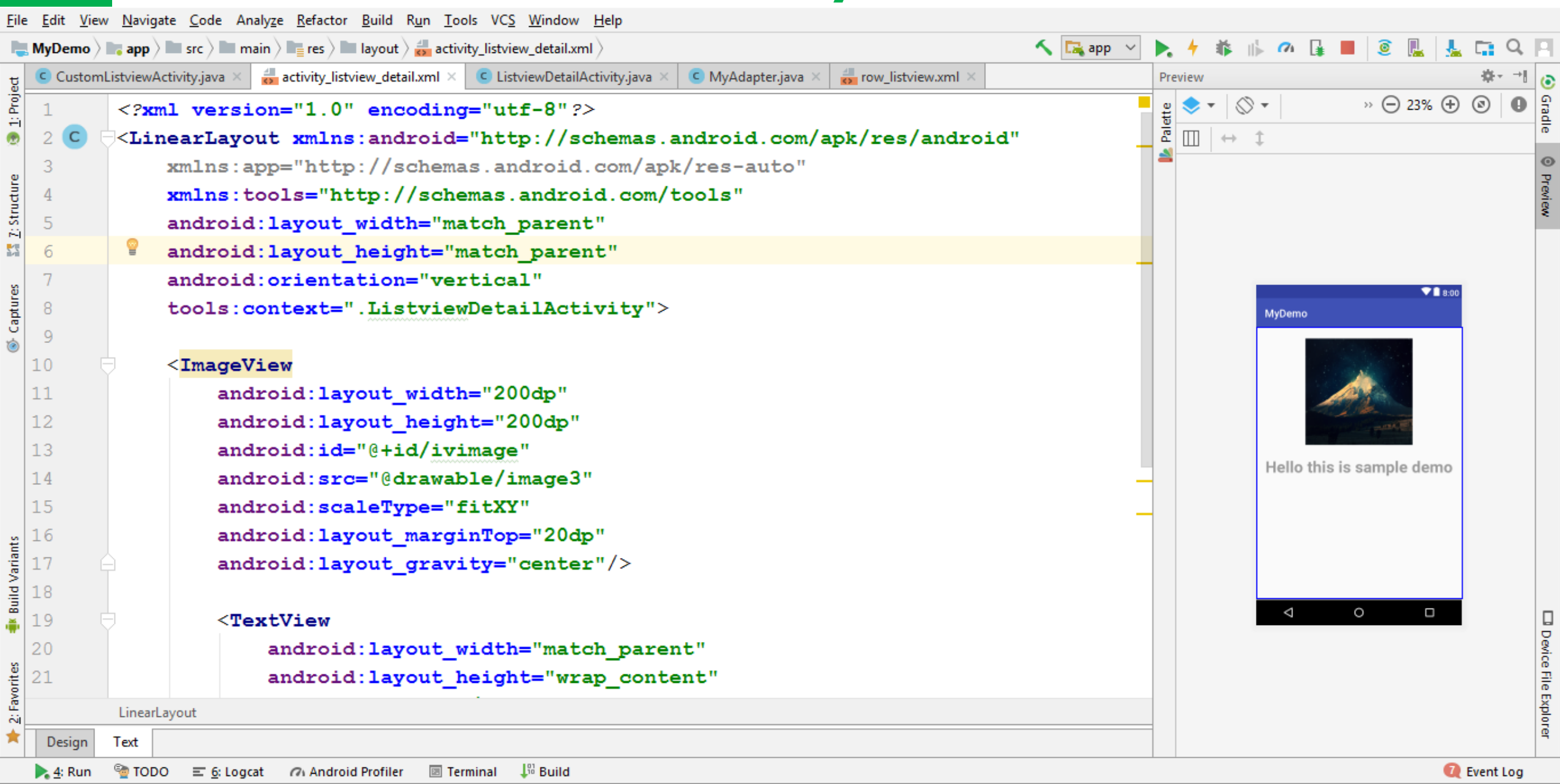
CustomListViewActivity.java x activity_listview_detail.xml x ListViewDetailActivity.java x MyAdapter.java x row_listview.xml x

```
20 setContentView(R.layout.activity_custom_listview);
21
22 lv1=findViewById(R.id.lv1);
23 MyAdapter myAdapter=new MyAdapter(context: CustomListViewActivity.this,image,name);
24 lv1.setAdapter(myAdapter);
25 lv1.setOnItemClickListener(new AdapterView.OnItemClickListener() {
26     @Override
27     public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
28         Intent intent=new Intent(packageContext: CustomListViewActivity.this,ListviewDetailActivity.class);
29         intent.putExtra(name: "image",image[position]);
30         intent.putExtra(name: "name",name[position]);
31         startActivity(intent);
32     }
33 });
34 }
35 }
36
```

CustomListViewActivity > onCreate() > new OnItemClickListener

Run TODO Logcat Android Profiler Terminal Build Event Log

Screenshot Of activity_listview_detail.xml



Cont...

File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

MyDemo > app > src > main > res > layout > activity_listview_detail.xml

CustomListViewActivity.java × activity_listview_detail.xml × ListViewDetailActivity.java × MyAdapter.java × row_listview.xml ×

```
15 android:scaleType="fitXY"
16 android:layout_marginTop="20dp"
17 android:layout_gravity="center"/>
18
19 <TextView
20     android:layout_width="match_parent"
21     android:layout_height="wrap_content"
22     android:id="@+id/tvnamedetail"
23     android:hint="Hello this is sample demo"
24     android:textAlignment="center"
25     android:textSize="30dp"
26     android:textColor="@android:color/black"
27     android:textStyle="bold"
28     android:layout_marginTop="20dp"/>
29
30 </LinearLayout>
```

LinearLayout

Design Text

Preview

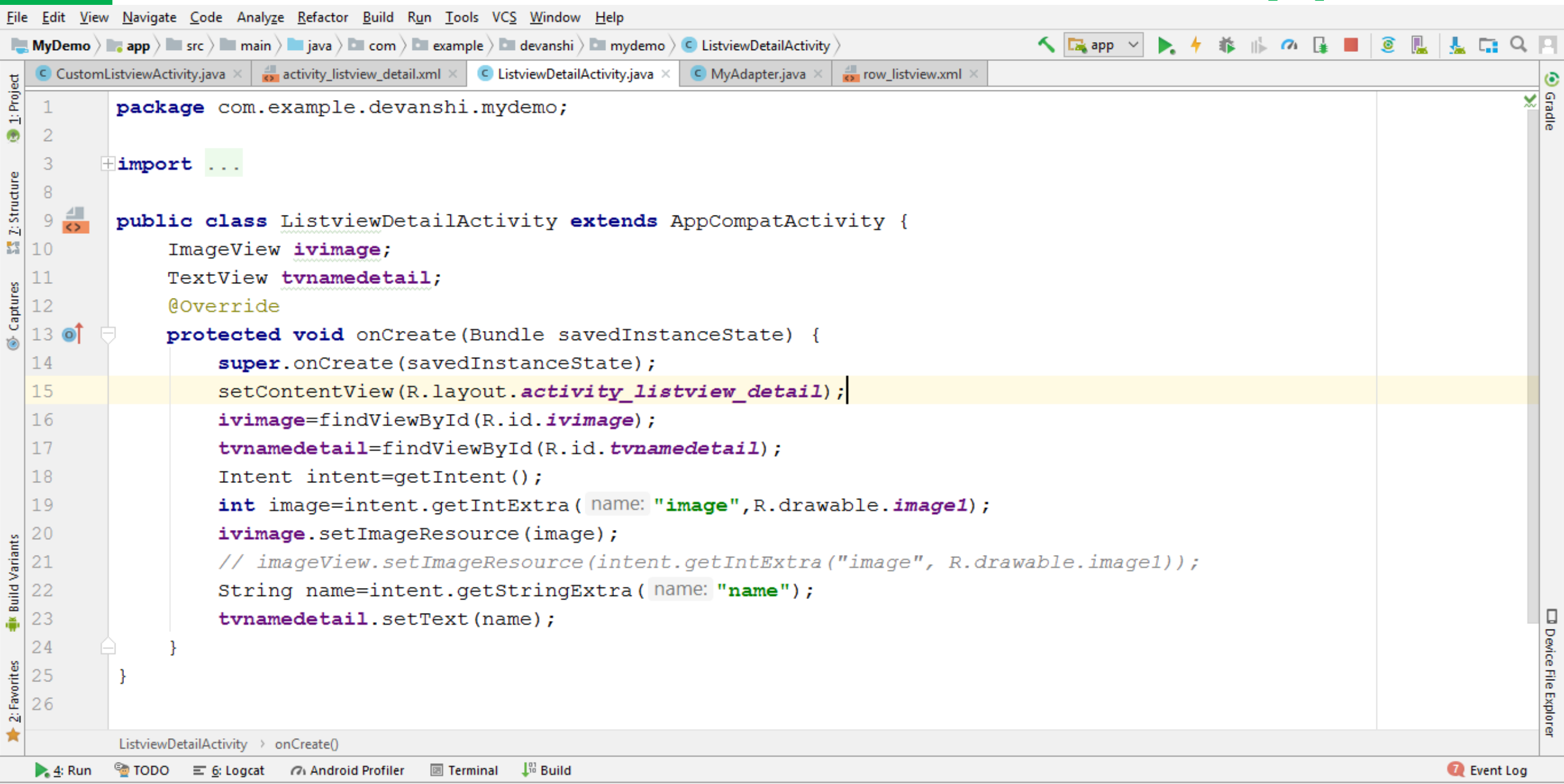
23% 23%

MyDemo

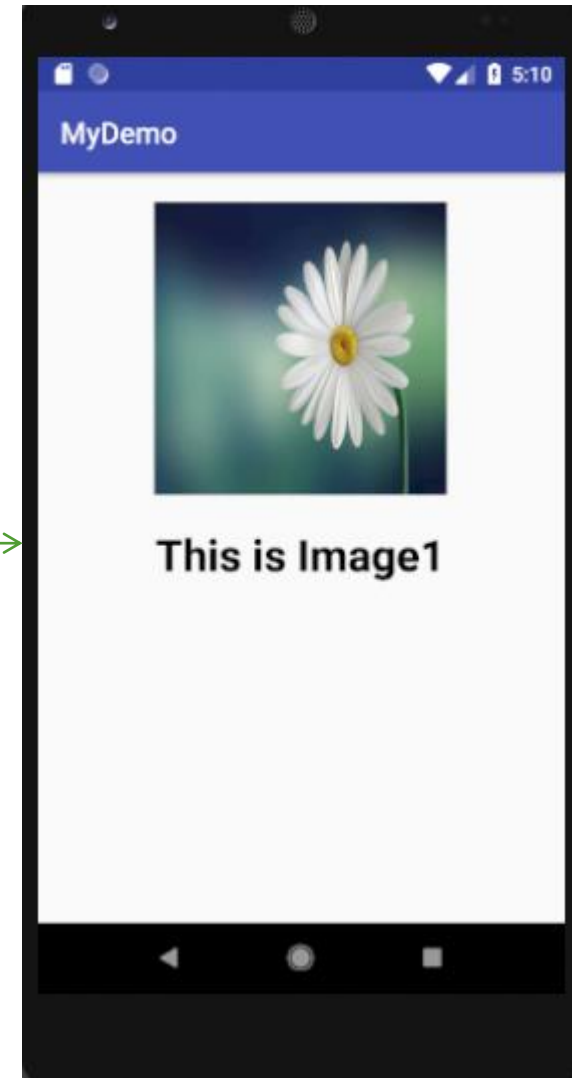
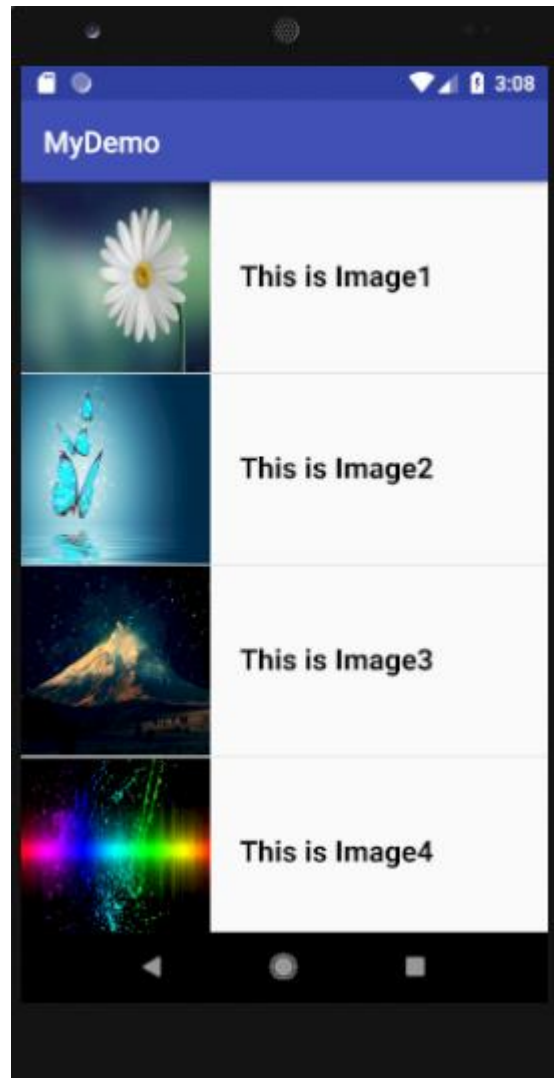
Hello this is sample demo

Run TODO Logcat Android Profiler Terminal Build Event Log

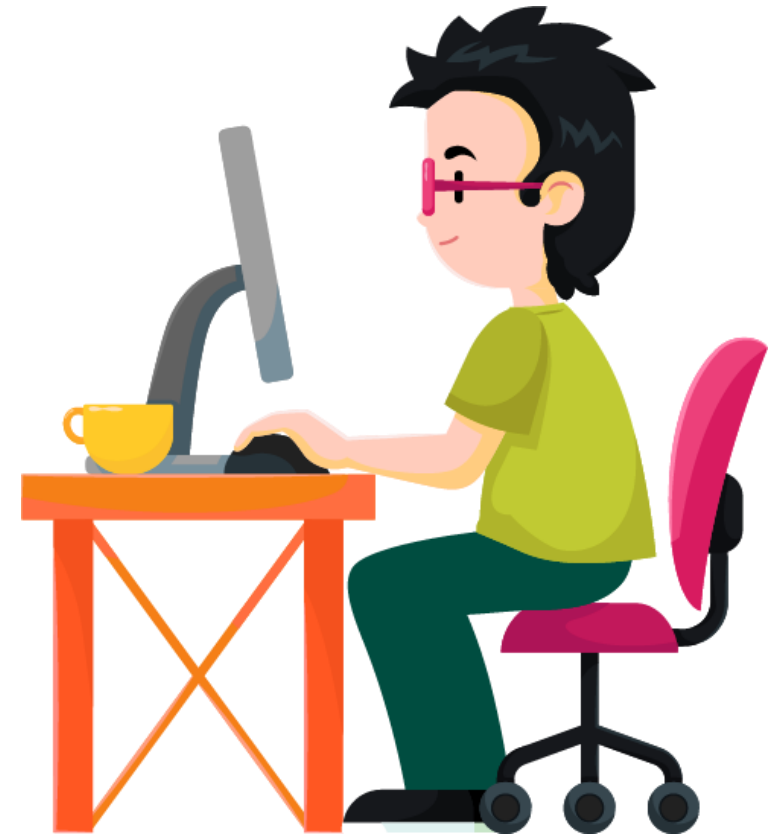
Screenshot Of ListViewDetailActivity.java



Output



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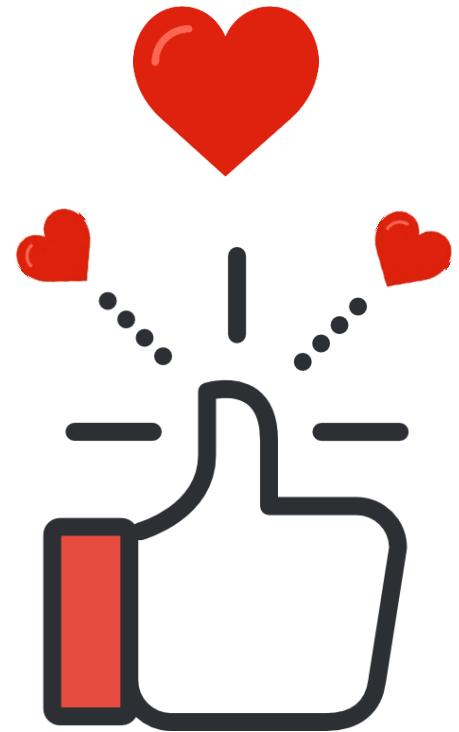
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