



Android Class

#Android Notes

List View in Android



List View

- Android ListView is a view which groups several items and display them in vertical scrollable list.
- The list items are automatically inserted to the list using an Adapter that pulls content from a source such as an array or database.





My Application	
Android	
IPhone	
WindowsMobile	
Blackberry	
WebOS	
Ubuntu	
Windows7	
Max OS X	



Properties Of ListView

No	Attribute Name	Description
1	android:id	This is the ID which uniquely identifies the layout.
2	android:divider	This is drawable or color to draw between list items.
3	android:dividerHeight	This specifies height of the divider. This could be in px, dp, sp.



What is Adapter ?

- An adapter actually bridges between UI components and the data source that fill data into UI Component.
- Adapter holds the data and send the data to adapter view.
- The view can takes the data from adapter view and shows the data on different views like as spinner, list view, grid view etc.
- The ListView and GridView are subclasses of AdapterView.



Array Adapter ?

- Array adapter used when your data source is an array.
- By default, ArrayAdapter creates a view for each array item by calling `toString()` on each item and placing the contents in a `TextView`.
- Once you have array adapter created, then simply call **`setAdapter()`** method on your `ListView` object.



Syntax

■ Syntax:-

```
ArrayAdapter adapter = new  
ArrayAdapter<String>(this, R.layout.ListView, StringArray) ;
```

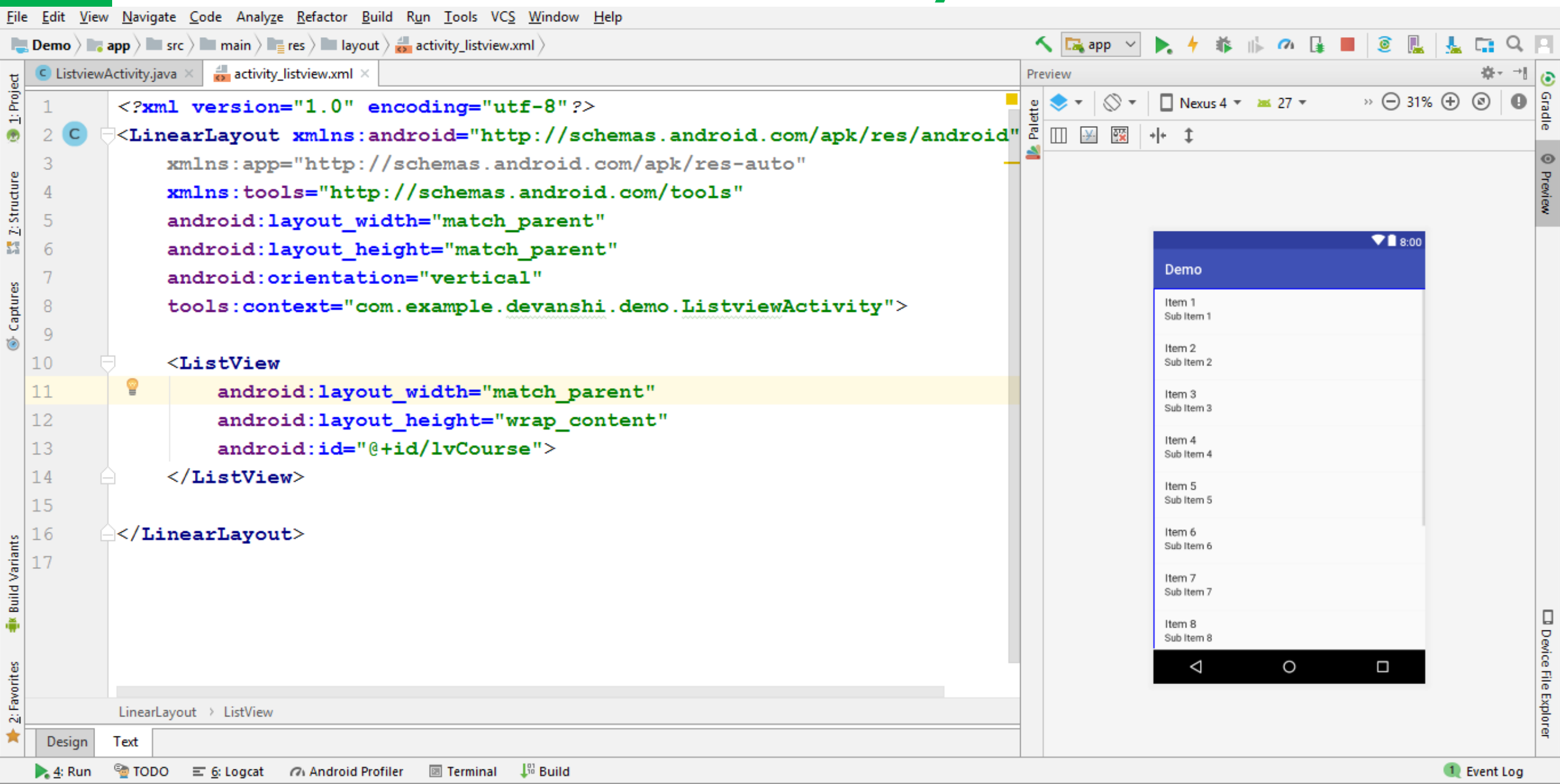
■ Here,

- First argument **this** is the **application context**.
- Second argument will be **layout defined in XML file** and having **TextView** for each string in the array.
- Third argument is **an array of strings** which will be populated in the text view.

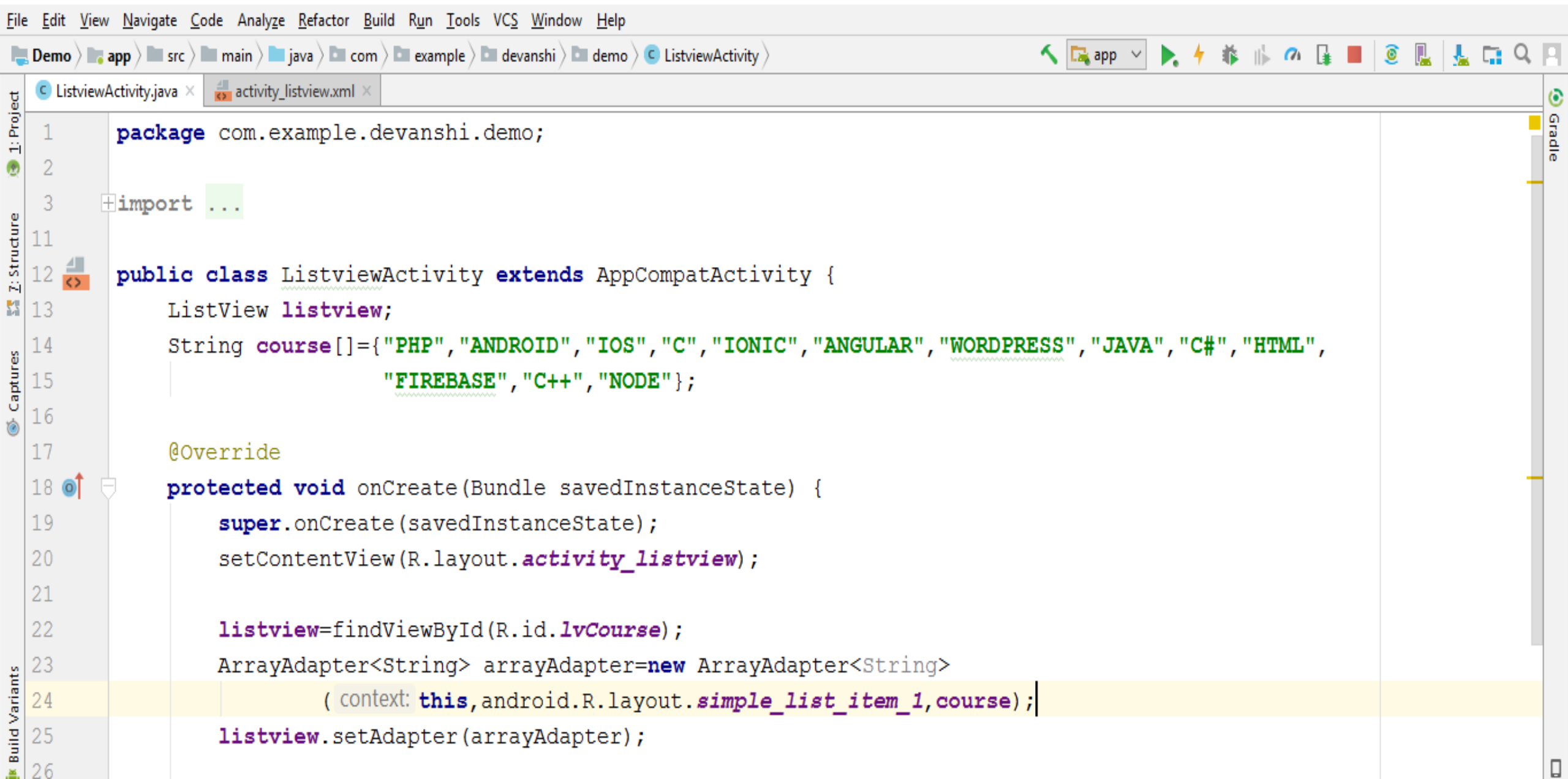




Screenshot Of activity_listview.xml



Screenshot Of ListViewActivity.java



Output



Click Event Of Listview

- To set click event on every item of Listview **setOnItemClickListener** is used.

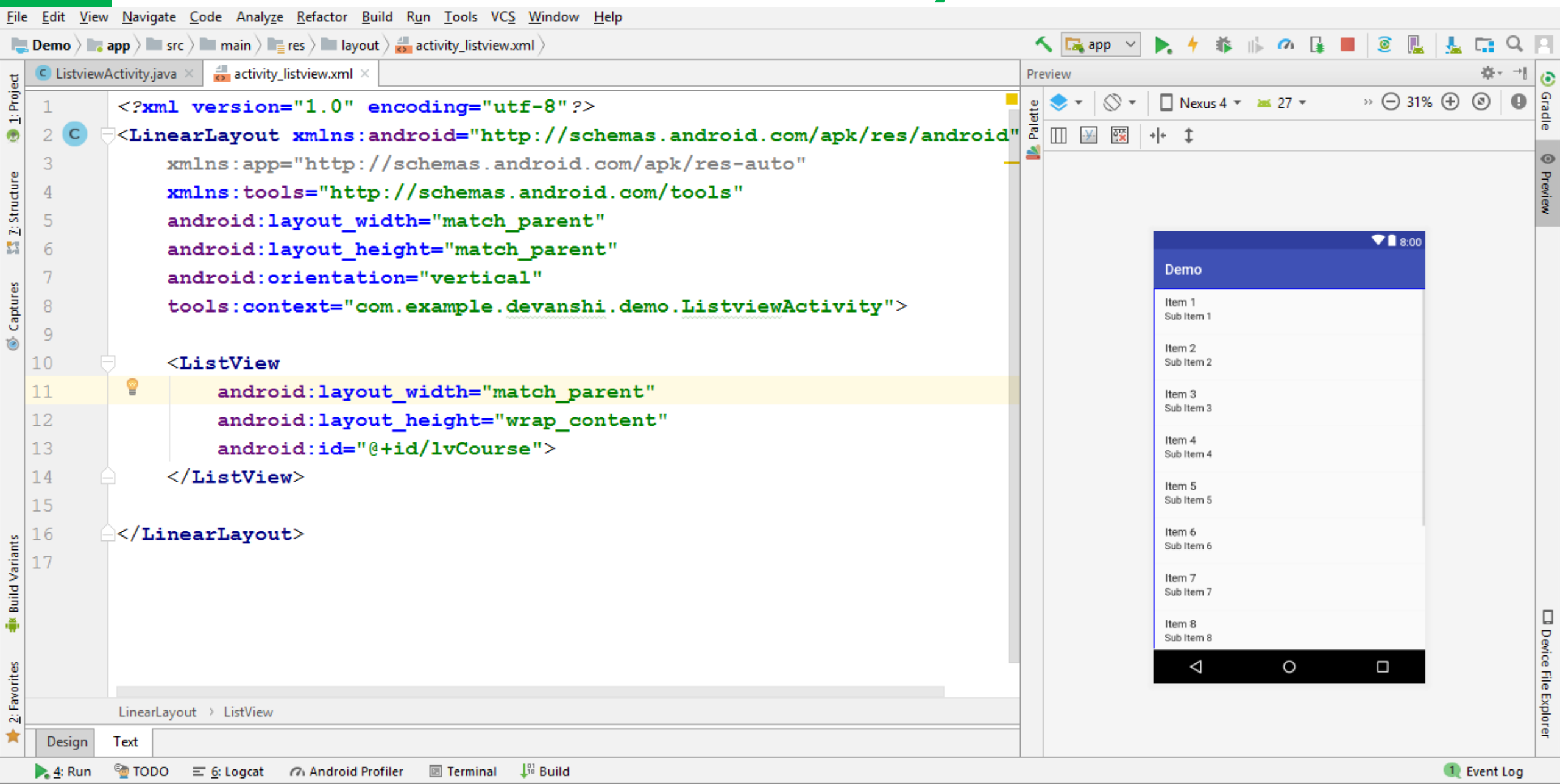
- **Syntax:-**

```
listview.setOnItemClickListener(new AdapterView.OnItemClickListener() {  
    @Override  
    public void onItemClick(AdapterView<?> parent, View view, int position, long id)  
    {  
        //Code To Be Executed  
    }  
});
```

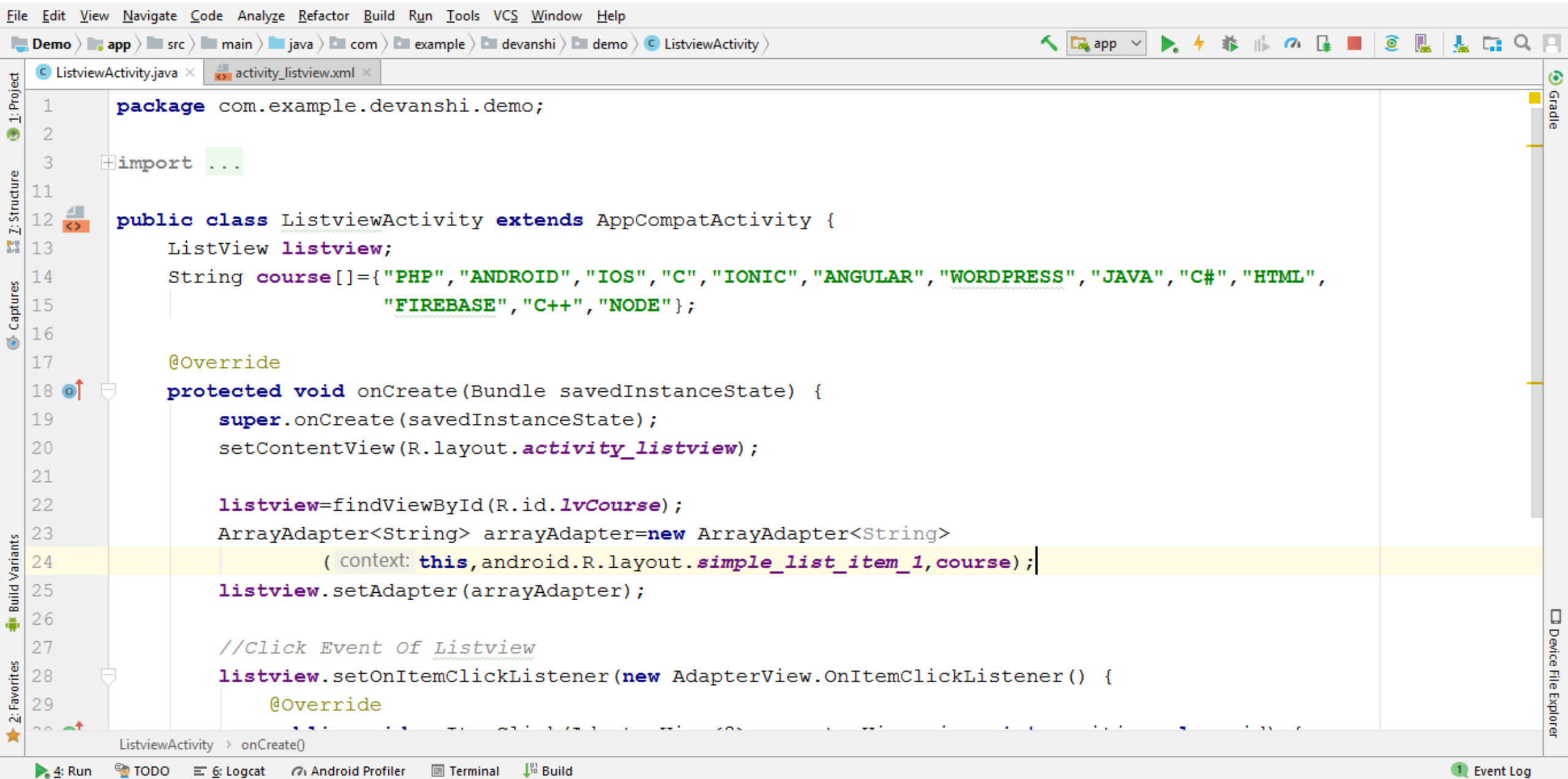




Screenshot Of activity_listview.xml



Screenshot Of ListViewActivity.java



The screenshot displays the code for `ListViewActivity.java` in an IDE. The code is as follows:

```
1 package com.example.devanshi.demo;
2
3 import ...
4
11
12 public class ListViewActivity extends AppCompatActivity {
13     ListView listView;
14     String course[]={"PHP","ANDROID","IOS","C","IONIC","ANGULAR","WORDPRESS","JAVA","C#","HTML",
15                     "FIREBASE","C++","NODE"};
16
17     @Override
18     protected void onCreate(Bundle savedInstanceState) {
19         super.onCreate(savedInstanceState);
20         setContentView(R.layout.activity_listview);
21
22         listView=findViewById(R.id.lvCourse);
23         ArrayAdapter<String> arrayAdapter=new ArrayAdapter<String>
24             ( context: this, android.R.layout.simple_list_item_1, course);
25         listView.setAdapter(arrayAdapter);
26
27         //Click Event Of ListView
28         listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
29             @Override
```

The IDE interface includes a menu bar (File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help), a toolbar with icons for running, debugging, and other actions, and a sidebar with project structure, captures, build variants, and favorites. The bottom status bar shows the current activity and method being edited: `ListViewActivity > onCreate()`.

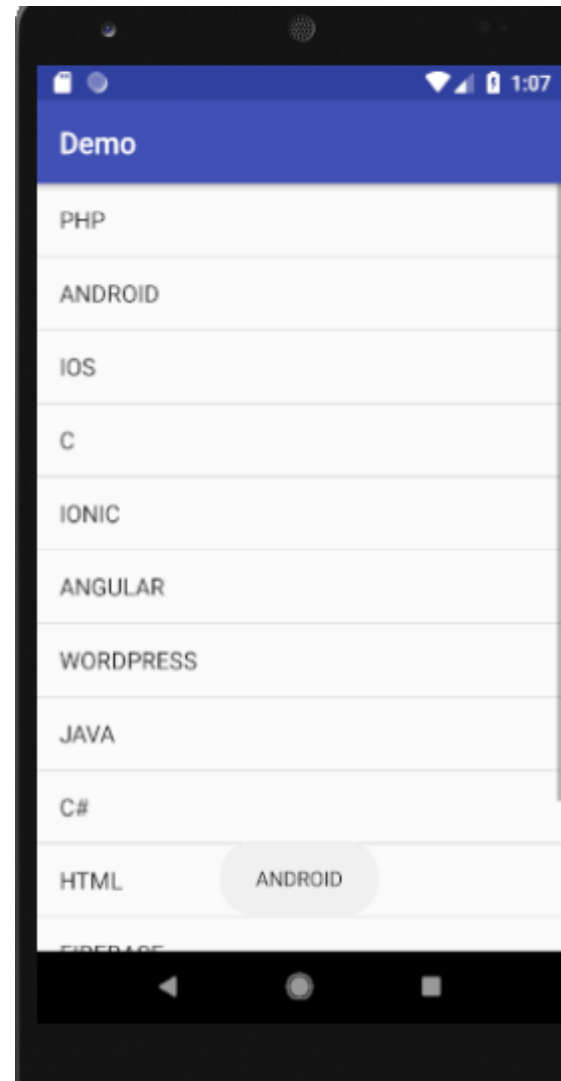
Cont...

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

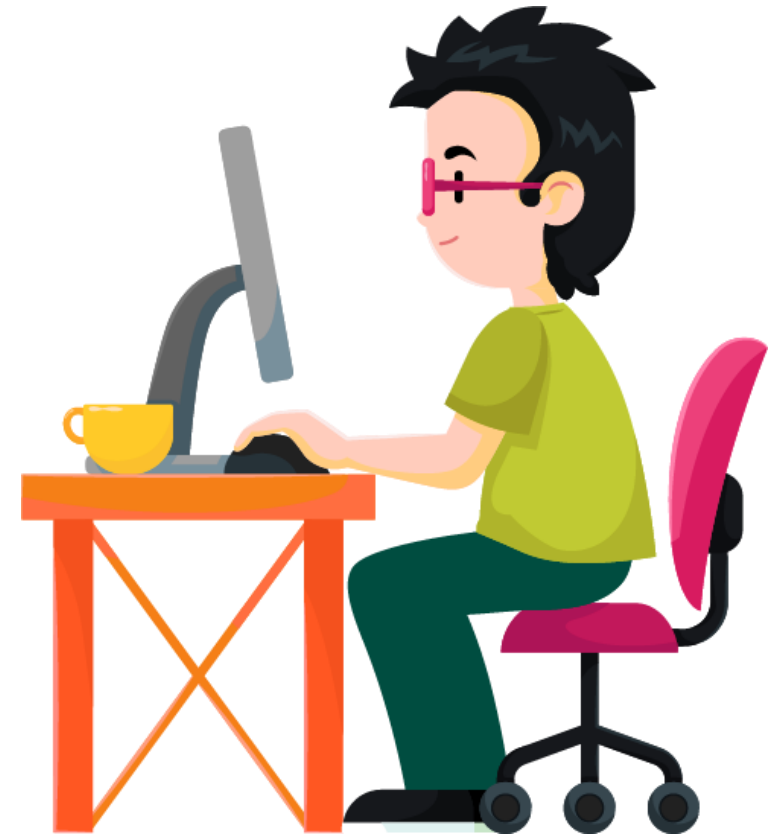
- Menu Bar:** File, Edit, View, Navigate, Code, Analyze, Refactor, Build, Run, Tools, VCS, Window, Help.
- Toolbar:** Standard Android Studio icons for navigation and development.
- Breadcrumbs:** Demo > app > src > main > java > com > example > devanshi > demo > ListviewActivity >
- Tab Bar:** ListviewActivity.java x, activity_listview.xml x
- Left Sidebar:** Project (1: Project), Structure (2: Structure), Captures, Build Variants, Favorites (2: Favorites).
- Right Sidebar:** Gradle, Device File Explorer.
- Main Editor:** Contains the Java code for ListviewActivity.java.

```
19 super.onCreate(savedInstanceState);
20 setContentView(R.layout.activity_listview);
21
22 listview=findViewById(R.id.lvCourse);
23 ArrayAdapter<String> arrayAdapter=new ArrayAdapter<String>
24     ( context: this,android.R.layout.simple_list_item_1,course);
25 listview.setAdapter(arrayAdapter);
26
27 //Click Event Of Listview
28 listview.setOnItemClickListener(new AdapterView.OnItemClickListener() {
29     @Override
30     public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
31         Toast.makeText(getApplicationContext(), course[position], Toast.LENGTH_SHORT).show();
32     }
33 });
34 }
35
36 }
```
- Bottom Bar:** Run (4: Run), TODO, Logcat (6: Logcat), Android Profiler, Terminal, Build (10: Build), Event Log (1: Event Log).

Output



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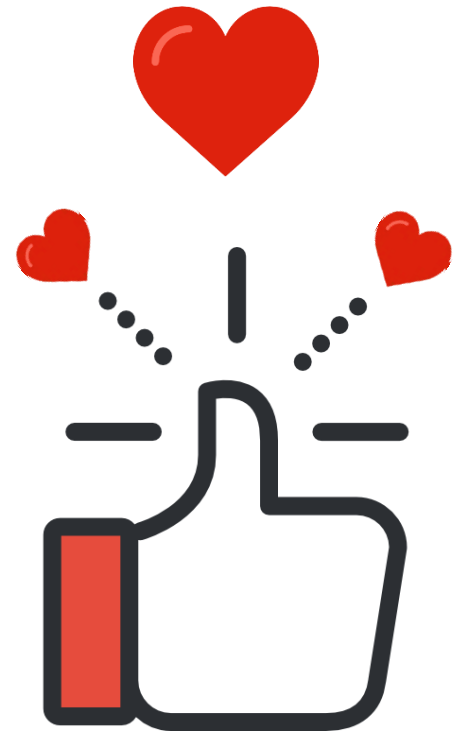
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