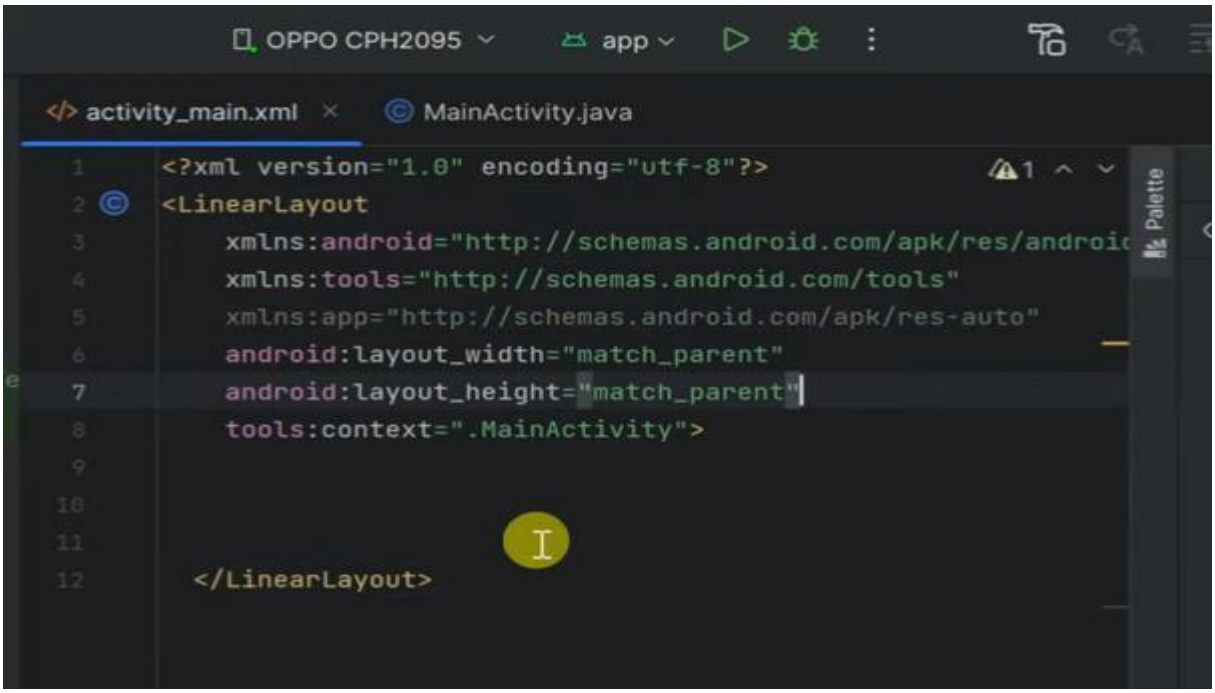
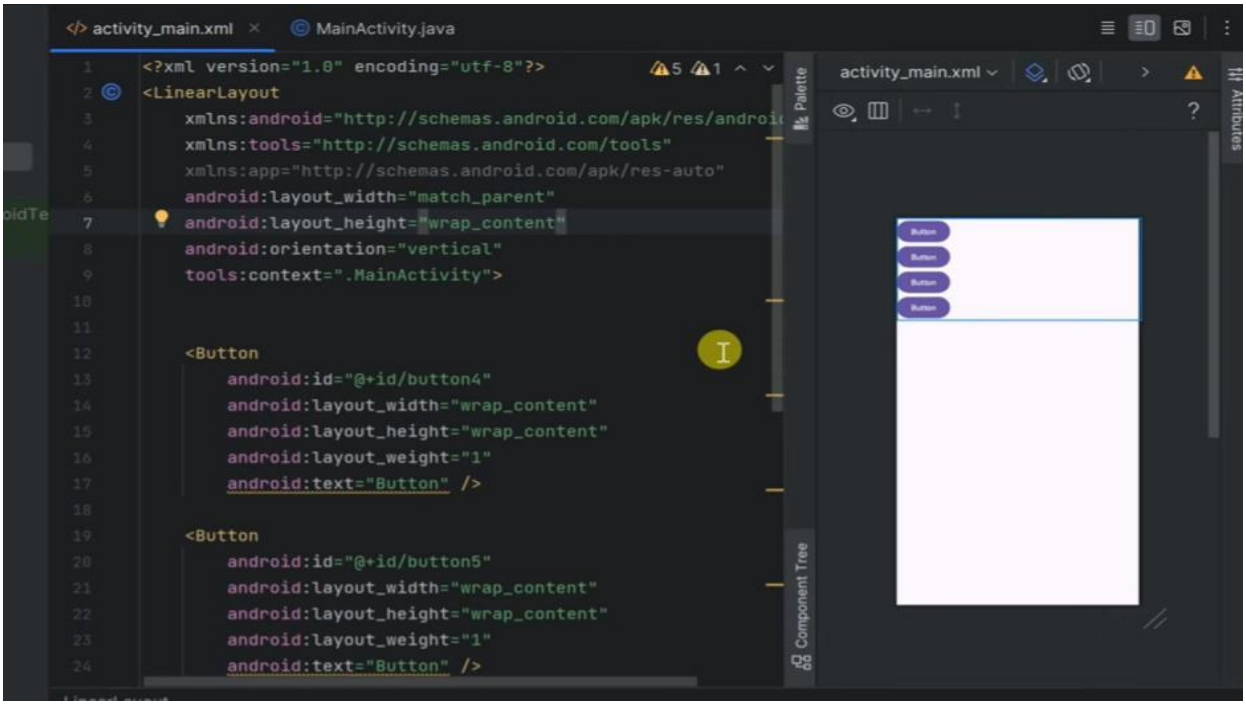
Practical no. 7- Programs related to different layouts: Linear, Relative, Table layout and List view.

Linear layout :





Relative Layout:

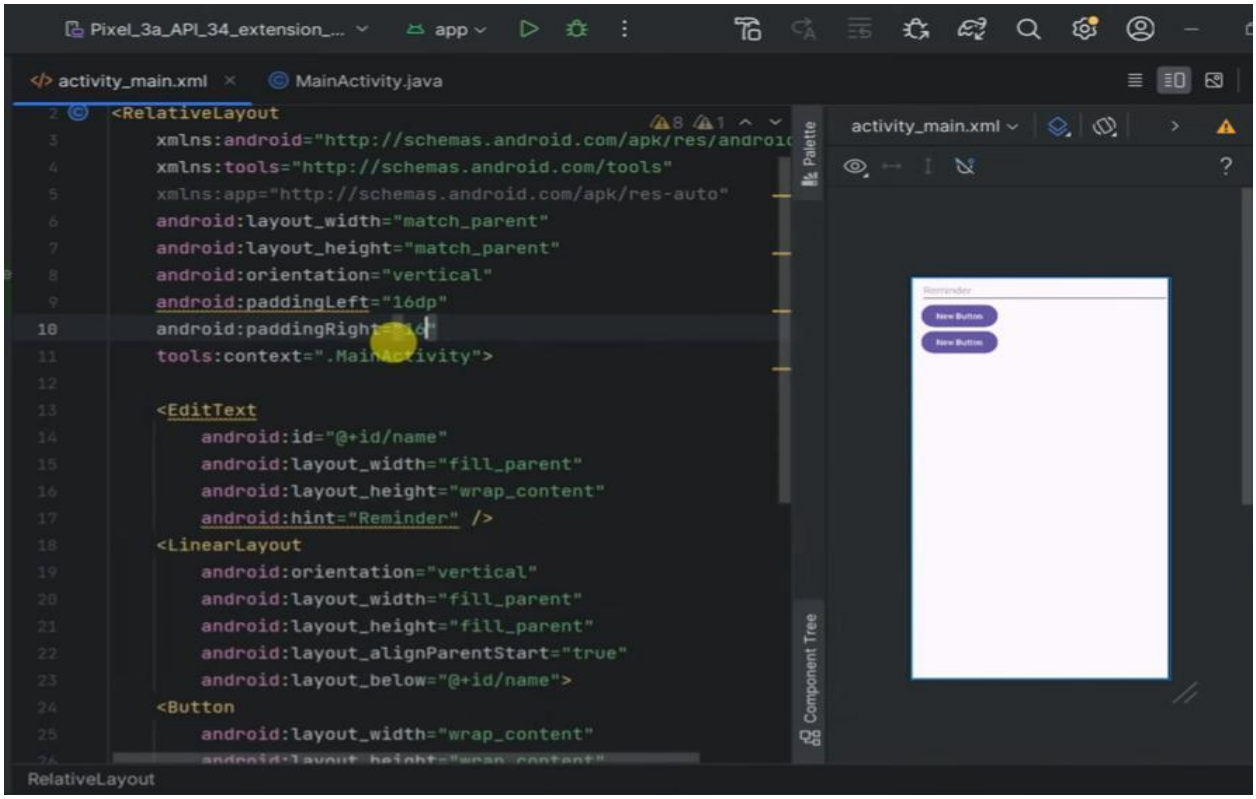
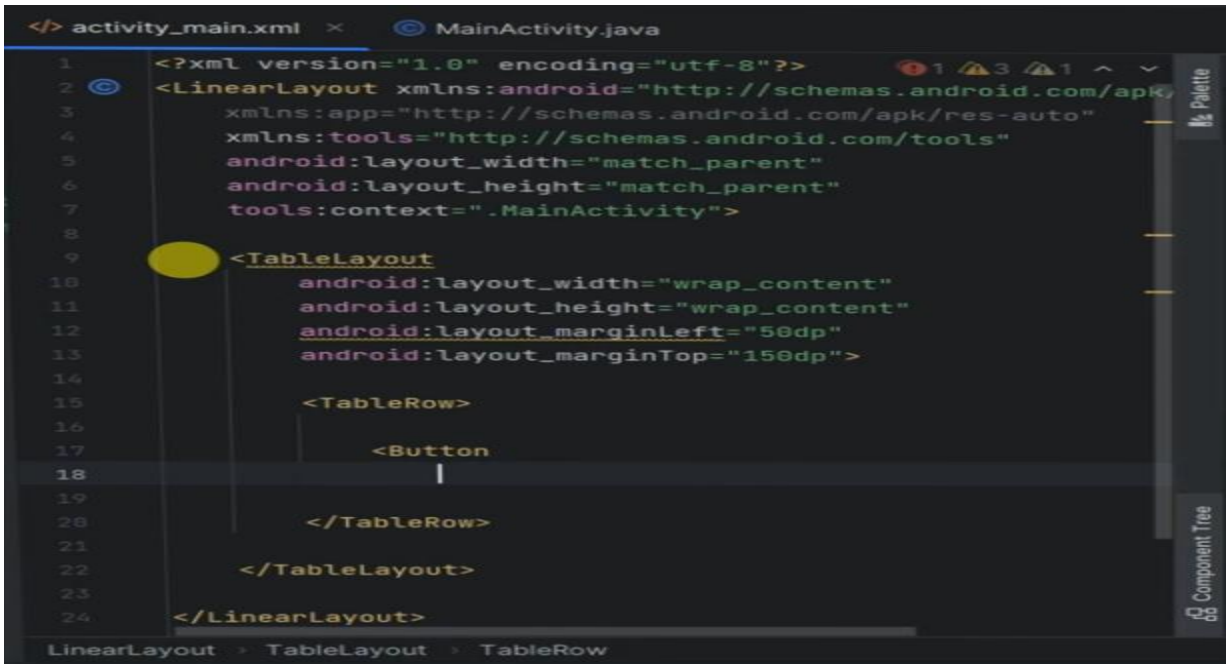
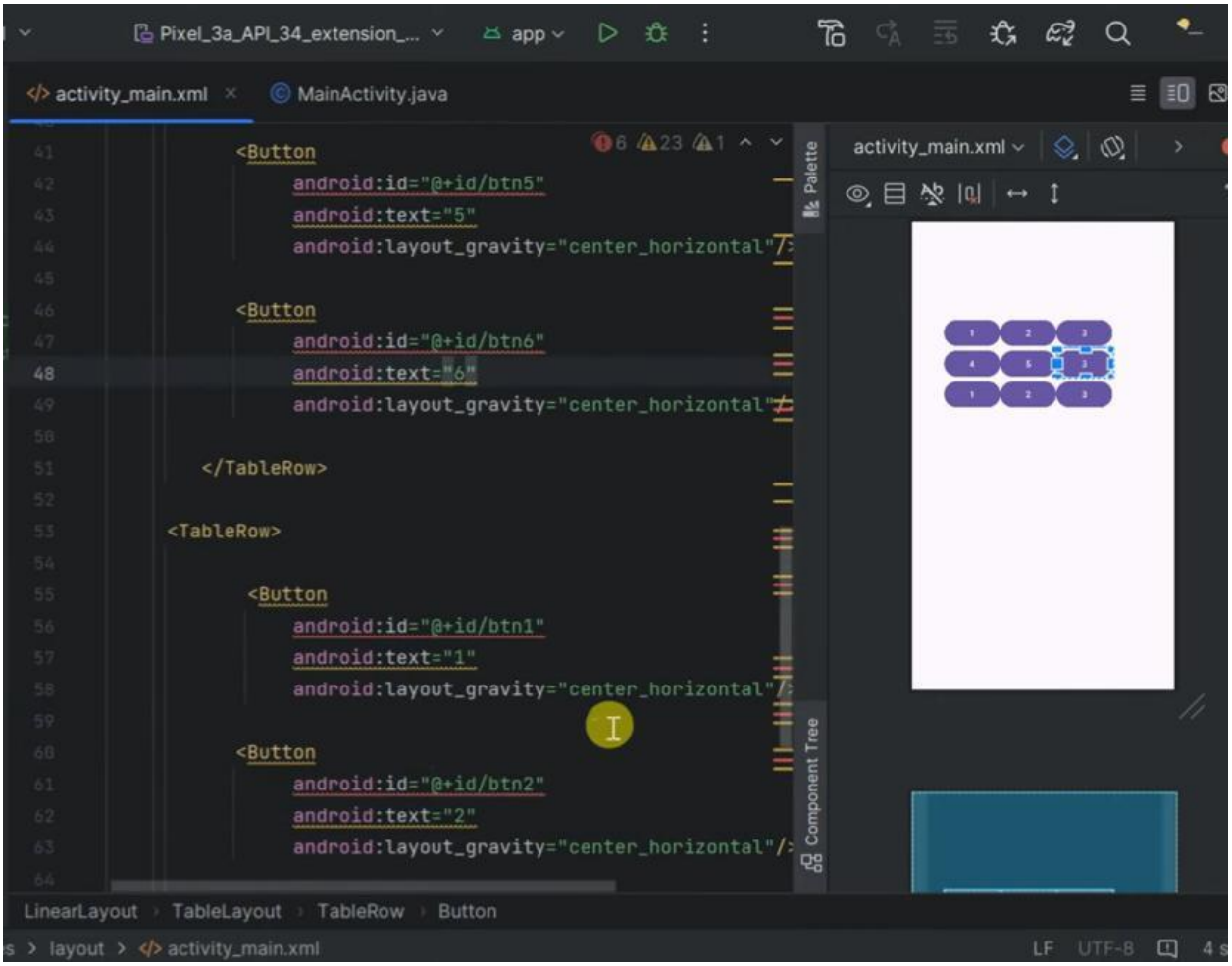
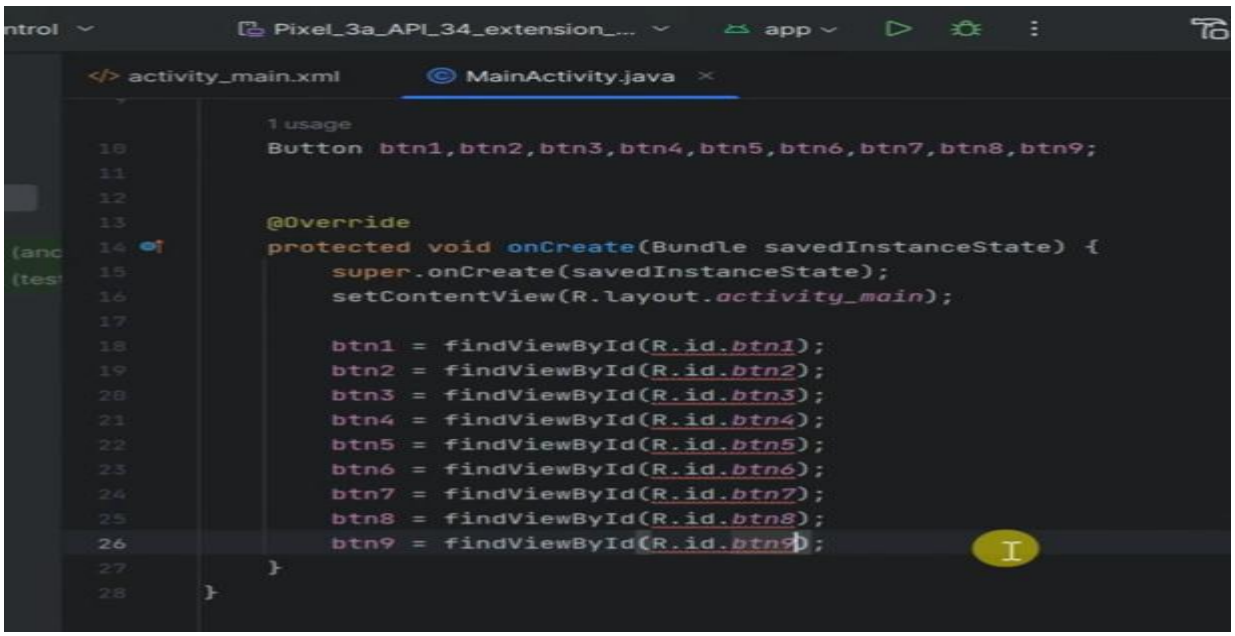
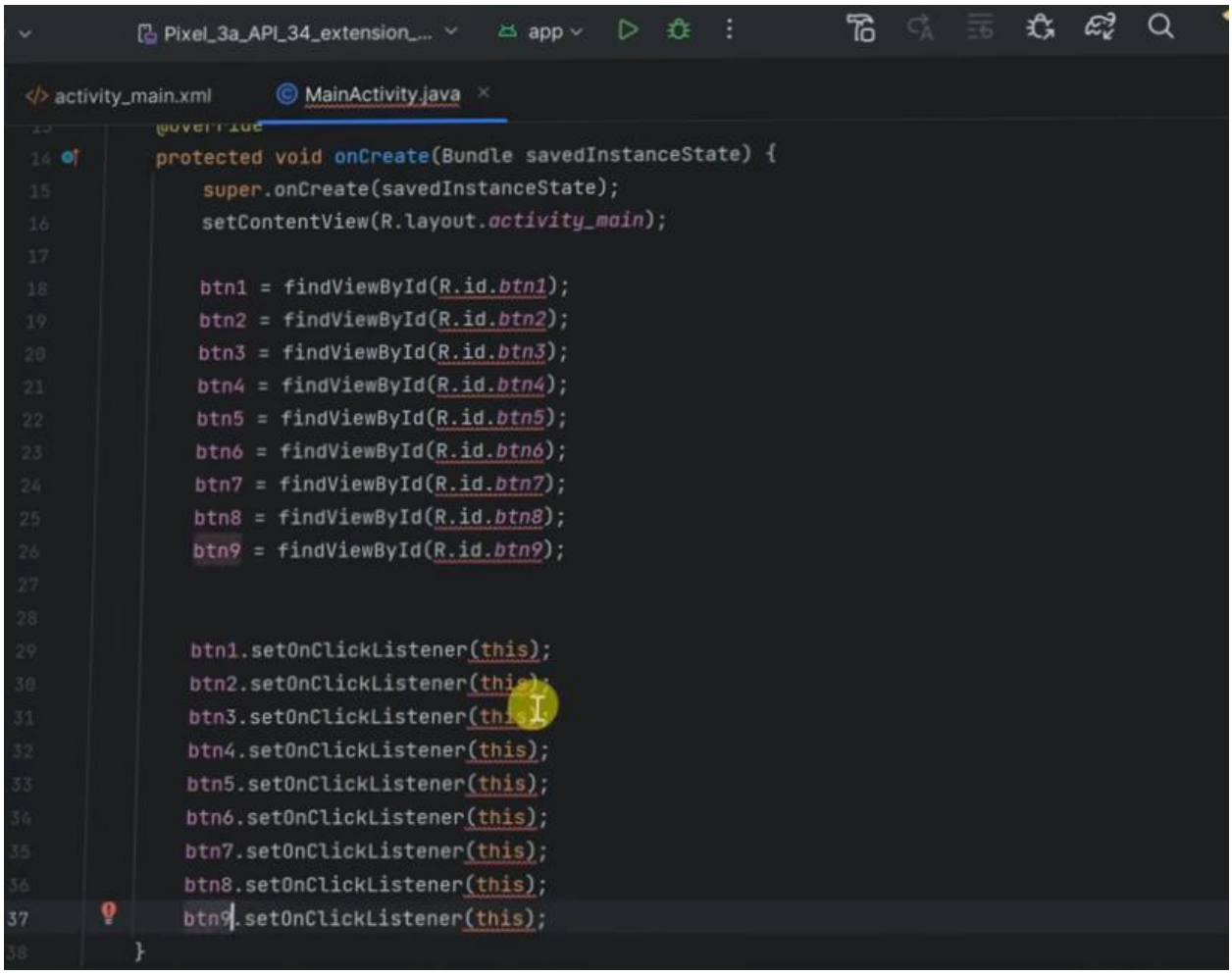


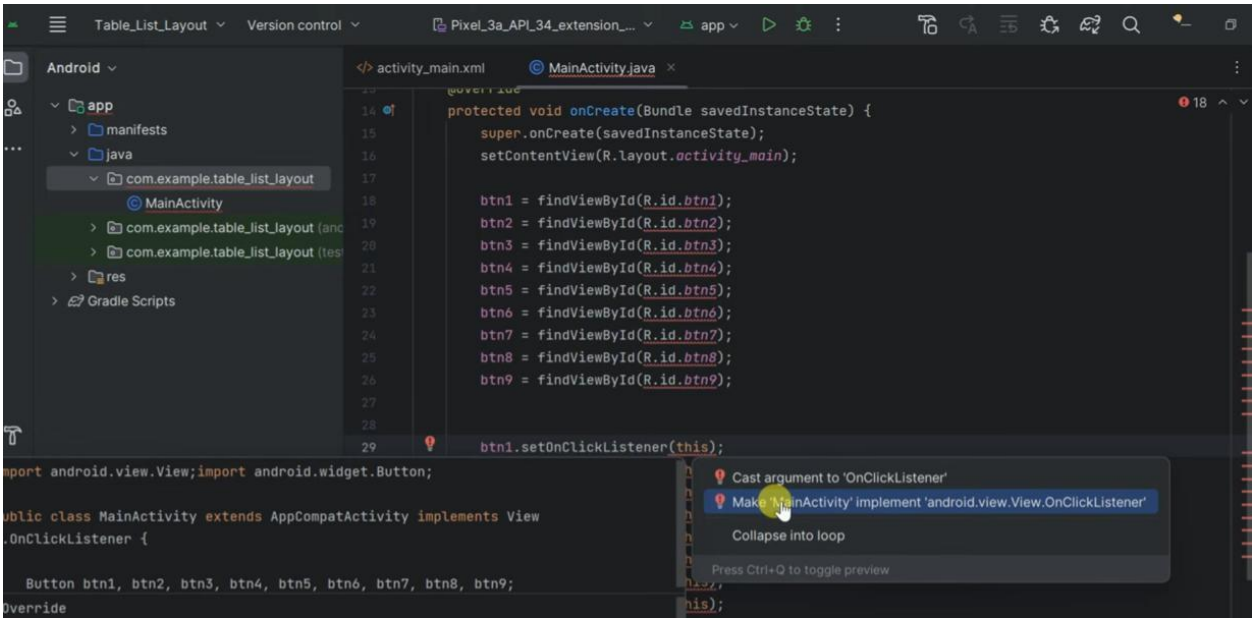
Table layout:

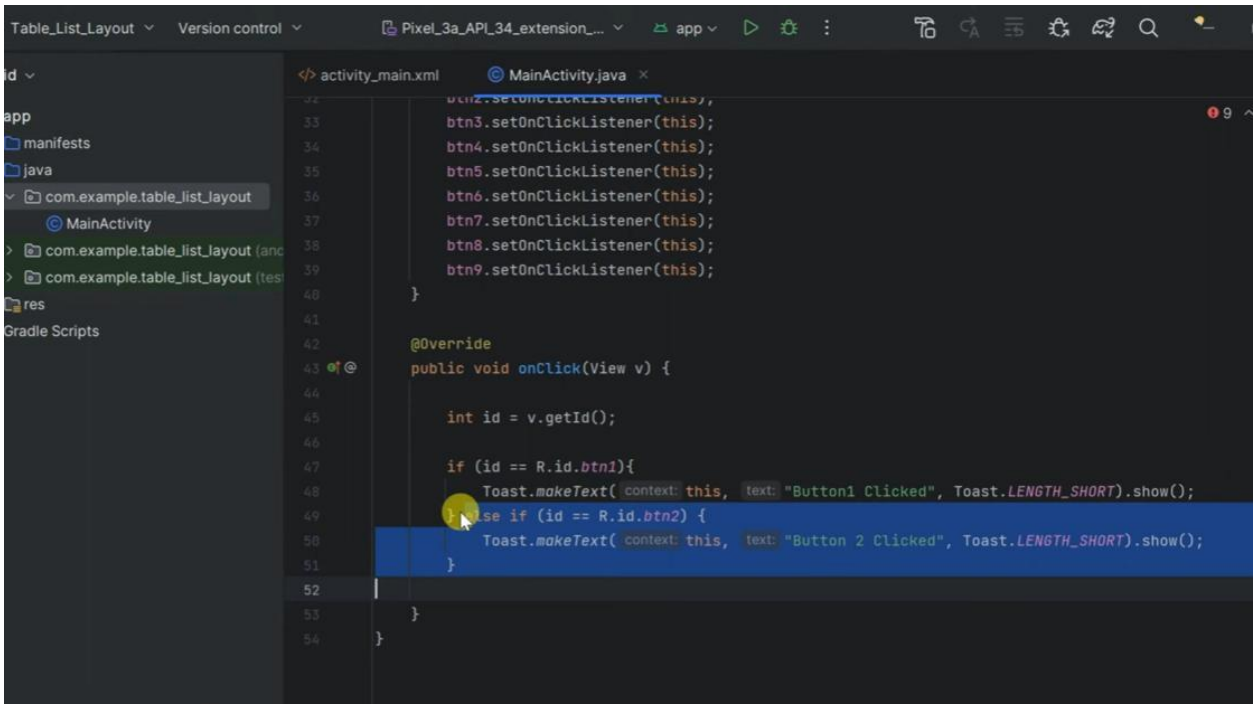



Pixel_3a_API_34_extension_...
app
activity_main.xml
MainActivity.java
<Button
android:id="@+id/btn5"
android:text="5"
android:layout_gravity="center_horizontal"/>
<Button
android:id="@+id/btn6"
android:text="6"
android:layout_gravity="center_horizontal"/>
</TableRow>
<TableRow>
<Button
android:id="@+id/btn1"
android:text="1"
android:layout_gravity="center_horizontal"/>
<Button
android:id="@+id/btn2"
android:text="2"
android:layout_gravity="center_horizontal"/>
Palette
Component Tree
LinearLayout › TableLayout › TableRow › Button
layout › activity_main.xml
LF UTF-8

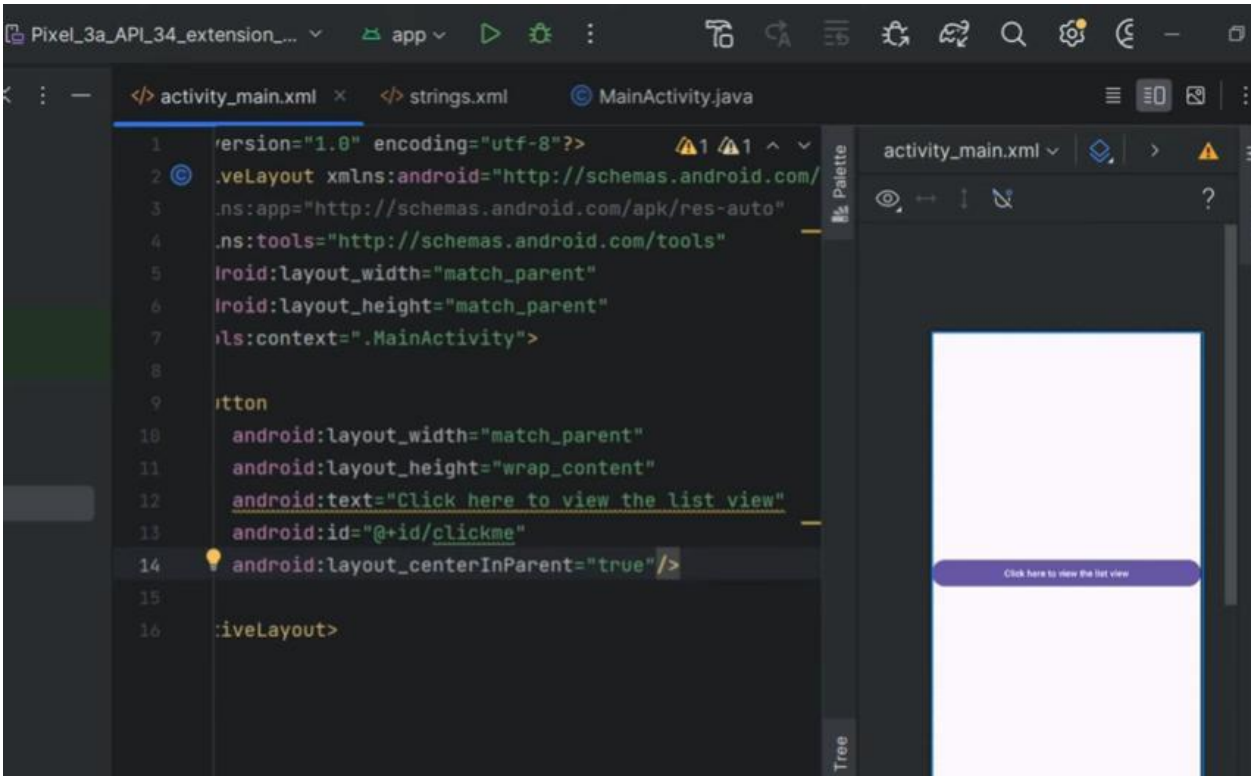

Pixel_3a_API_34_extension_...
app
activity_main.xml
MainActivity.java
1 usage
Button btn1,btn2,btn3,btn4,btn5,btn6,btn7,btn8,btn9;
@Override
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
btn1 = findViewById(R.id.btn1);
btn2 = findViewById(R.id.btn2);
btn3 = findViewById(R.id.btn3);
btn4 = findViewById(R.id.btn4);
btn5 = findViewById(R.id.btn5);
btn6 = findViewById(R.id.btn6);
btn7 = findViewById(R.id.btn7);
btn8 = findViewById(R.id.btn8);
btn9 = findViewById(R.id.btn9);
}
}

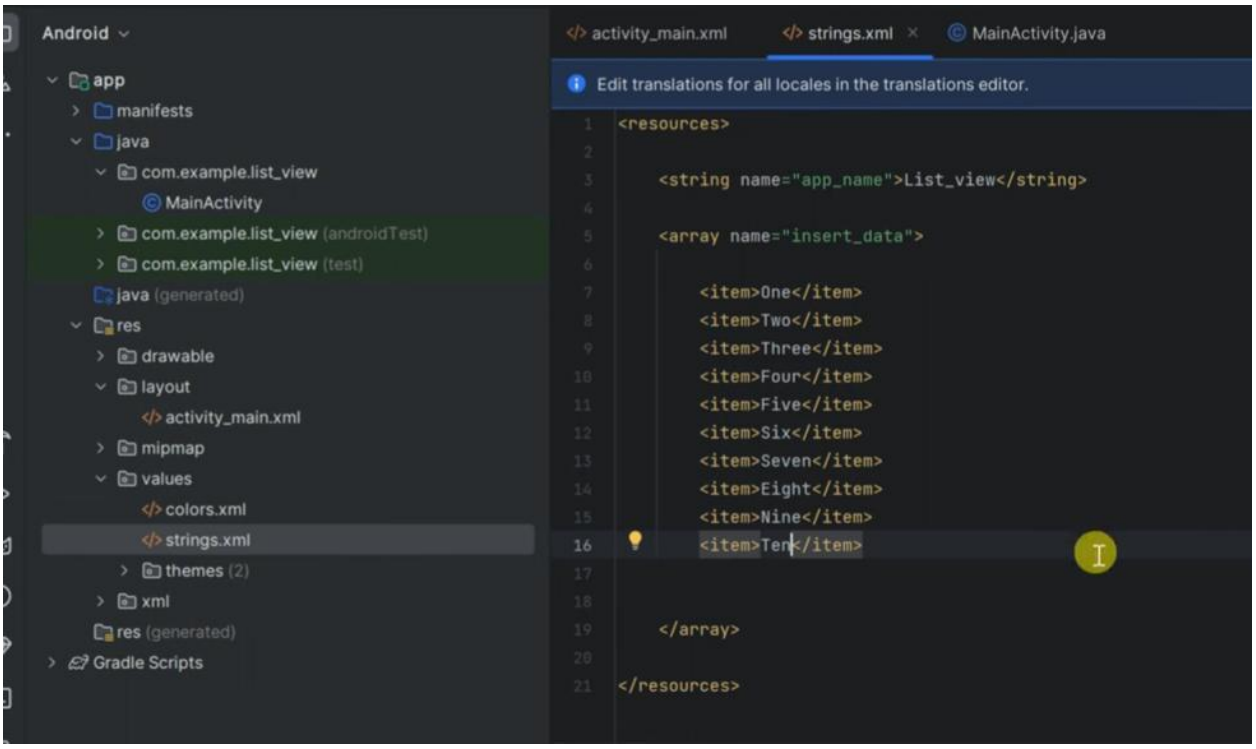

Pixel_3a_API_34_extension_...
app
activity_main.xml
MainActivity.java
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
btn1 = findViewById(R.id.btn1);
btn2 = findViewById(R.id.btn2);
btn3 = findViewById(R.id.btn3);
btn4 = findViewById(R.id.btn4);
btn5 = findViewById(R.id.btn5);
btn6 = findViewById(R.id.btn6);
btn7 = findViewById(R.id.btn7);
btn8 = findViewById(R.id.btn8);
btn9 = findViewById(R.id.btn9);
btn1.setOnClickListener(this);
btn2.setOnClickListener(this);
btn3.setOnClickListener(this);
btn4.setOnClickListener(this);
btn5.setOnClickListener(this);
btn6.setOnClickListener(this);
btn7.setOnClickListener(this);
btn8.setOnClickListener(this);
btn9.setOnClickListener(this);
}

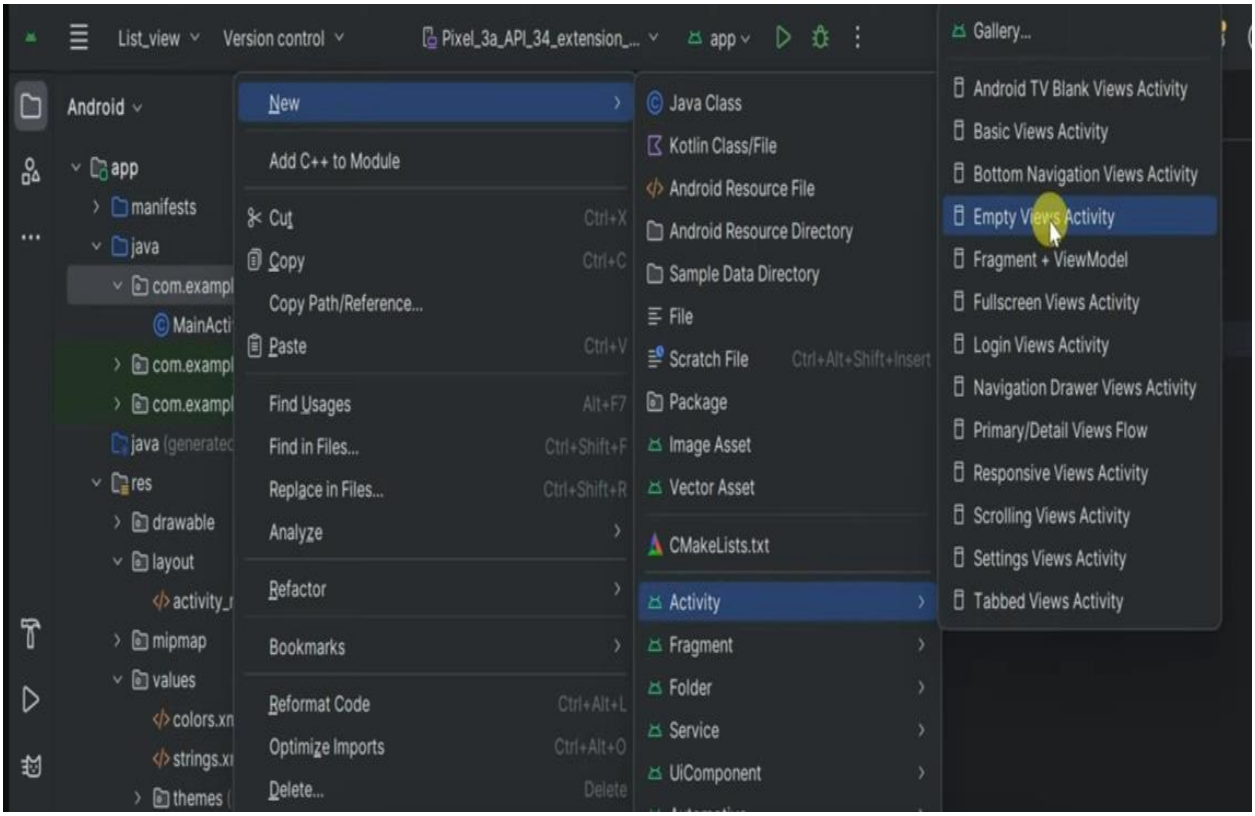

Table_List_Layout
Version control
Pixel_3a_API_34_extension_...
app
Android
activity_main.xml
MainActivity.java
app
manifests
java
com.example.table_list_layout
MainActivity
com.example.table_list_layout (and
com.example.table_list_layout (tes
res
Gradle Scripts
protected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
btn1 = findViewById(R.id.btn1);
btn2 = findViewById(R.id.btn2);
btn3 = findViewById(R.id.btn3);
btn4 = findViewById(R.id.btn4);
btn5 = findViewById(R.id.btn5);
btn6 = findViewById(R.id.btn6);
btn7 = findViewById(R.id.btn7);
btn8 = findViewById(R.id.btn8);
btn9 = findViewById(R.id.btn9);
btn1.setOnClickListener(this);
Cast argument to 'OnClickListener'
Make 'MainActivity' implement 'android.view.View.OnClickListener'
Collapse into loop
Press Ctrl+Q to toggle preview
mport android.view.View;import android.widget.Button;
ublic class MainActivity extends AppCompatActivity implements View
.OnClickListener {
Button btn1, btn2, btn3, btn4, btn5, btn6, btn7, btn8, btn9;
Override

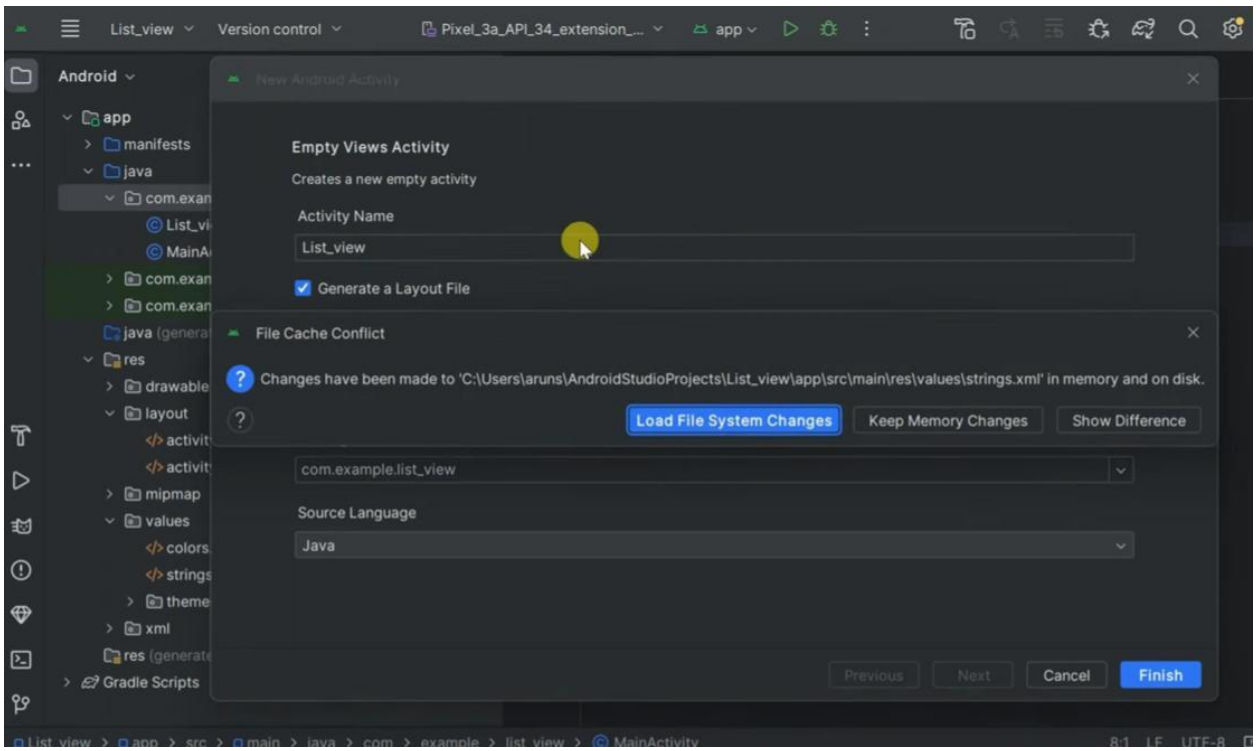

Table_List_Layout
Version control
Pixel_3a_API_34_extension_...
app
activity_main.xml
MainActivity.java
app
manifests
java
com.example.table_list_layout
MainActivity
com.example.table_list_layout (anc
com.example.table_list_layout (tes
res
Gradle Scripts
btn3.setOnClickListener(this);
btn4.setOnClickListener(this);
btn5.setOnClickListener(this);
btn6.setOnClickListener(this);
btn7.setOnClickListener(this);
btn8.setOnClickListener(this);
btn9.setOnClickListener(this);
}
@Override
public void onClick(View v) {
int id = v.getId();
if (id == R.id.btn1){
Toast.makeText(context: this, text: "Button1 Clicked", Toast.LENGTH_SHORT).show();
} else if (id == R.id.btn2) {
Toast.makeText(context: this, text: "Button 2 Clicked", Toast.LENGTH_SHORT).show();
}
}
}

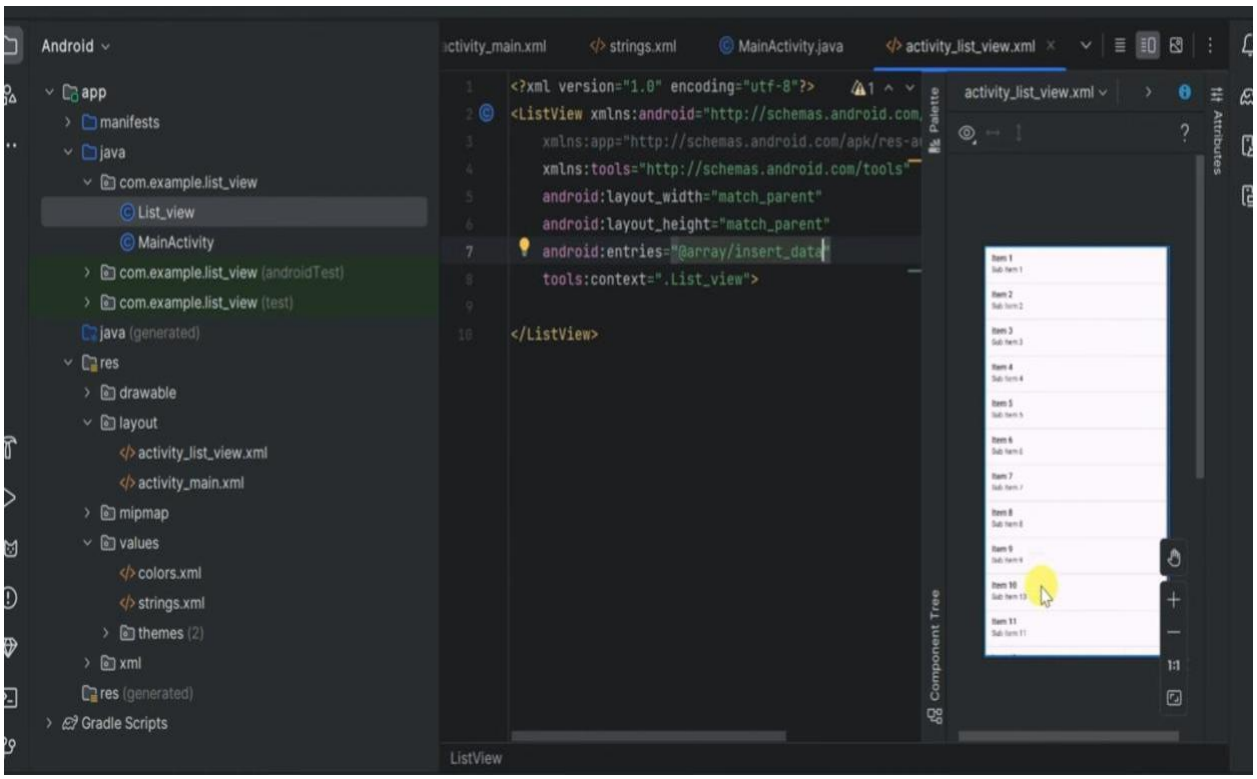
List view :

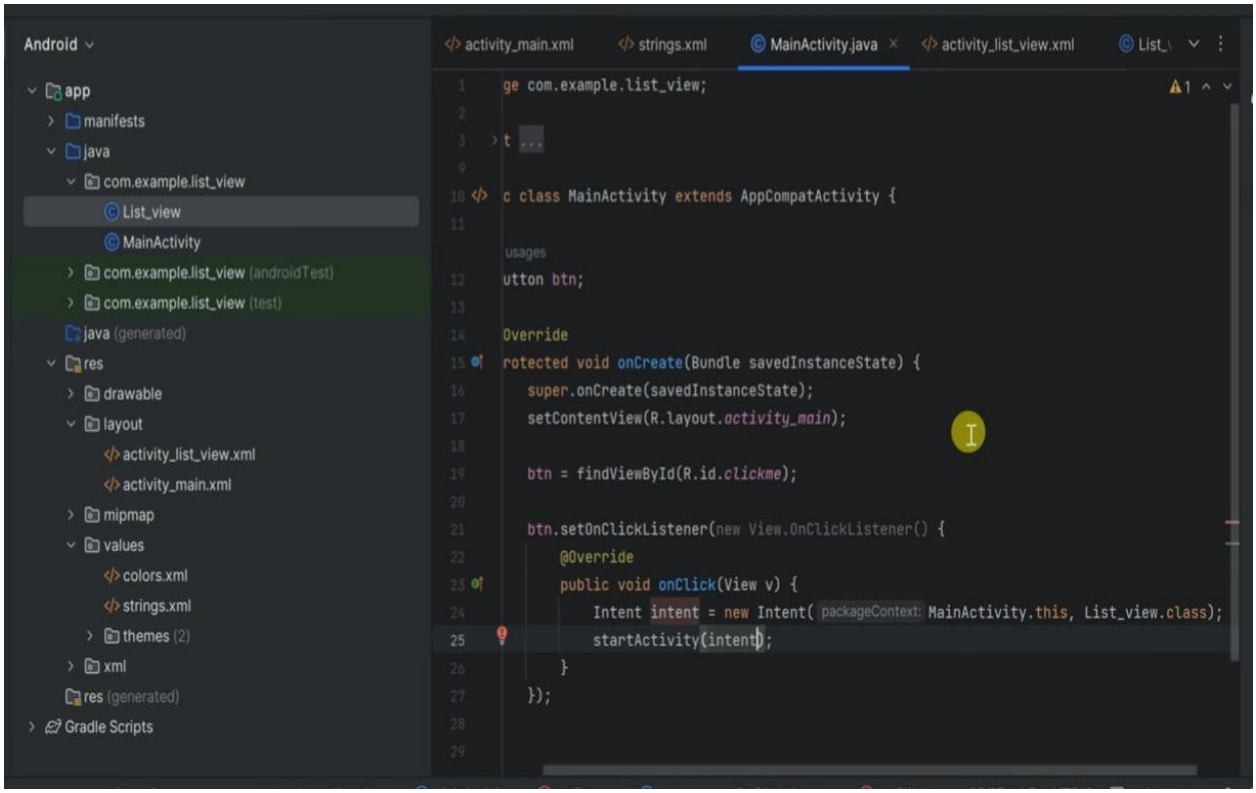

Pixel_3a_API_34_extension_...
app
activity_main.xml
strings.xml
MainActivity.java
ersion="1.0" encoding="utf-8"?>
.veLayout xmlns:android="http://schemas.android.com/
.ns:app="http://schemas.android.com/apk/res-auto"
.ns:tools="http://schemas.android.com/tools"
lroid:layout_width="match_parent"
lroid:layout_height="match_parent"
ls:context=".MainActivity">
tton
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:text="Click here to view the list view"
android:id="@+id/clickme"
android:layout_centerInParent="true"/>
iveLayout>
Palette
Tree
activity_main.xml
Click here to view the list view


Android
app
manifests
java
com.example.list_view
MainActivity
com.example.list_view (androidTest)
com.example.list_view (test)
java (generated)
res
drawable
layout
activity_main.xml
mipmap
values
colors.xml
strings.xml
themes (2)
xml
res (generated)
Gradle Scripts
activity_main.xml
strings.xml
MainActivity.java
Edit translations for all locales in the translations editor.
<resources>
<string name="app_name">List_view</string>
<array name="insert_data">
<item>One</item>
<item>Two</item>
<item>Three</item>
<item>Four</item>
<item>Five</item>
<item>Six</item>
<item>Seven</item>
<item>Eight</item>
<item>Nine</item>
<item>Ten</item>
</array>
</resources>


List_view
Version control
Pixel_3a_API_34_extension_...
app
Android
New
Add C++ to Module
Cut Ctrl+X
Copy Ctrl+C
Copy Path/Reference...
Paste Ctrl+V
Find Usages Alt+F7
Find in Files... Ctrl+Shift+F
Replace in Files... Ctrl+Shift+R
Analyze
Refactor
Bookmarks
Reformat Code Ctrl+Alt+L
Optimize Imports Ctrl+Alt+O
Delete... Delete
Java Class
Kotlin Class/File
Android Resource File
Android Resource Directory
Sample Data Directory
File
Scratch File Ctrl+Alt+Shift+Insert
Package
Image Asset
Vector Asset
CMakeLists.txt
Activity
Fragment
Folder
Service
UiComponent
Gallery...
Android TV Blank Views Activity
Basic Views Activity
Bottom Navigation Views Activity
Empty Views Activity
Fragment + ViewModel
Fullscreen Views Activity
Login Views Activity
Navigation Drawer Views Activity
Primary/Detail Views Flow
Responsive Views Activity
Scrolling Views Activity
Settings Views Activity
Tabbed Views Activity


List_view
Version control
Pixel_3a_API_34_extension_...
app
Android
app
manifests
java
res
drawable
layout
mipmap
values
Gradle Scripts
New Android Activity
Empty Views Activity
Creates a new empty activity
Activity Name
List_view
Generate a Layout File
File Cache Conflict
Changes have been made to 'C:\Users\aruns\AndroidStudioProjects\List_view\app\src\main\res\values\strings.xml' in memory and on disk.
Load File System Changes
Keep Memory Changes
Show Difference
com.example.list_view
Source Language
Java
Previous
Next
Cancel
Finish


Android
app
manifests
java
com.example.list_view
List_view
MainActivity
com.example.list_view (androidTest)
com.example.list_view (test)
java (generated)
res
drawable
layout
activity_list_view.xml
activity_main.xml
mipmap
values
colors.xml
strings.xml
themes (2)
xml
res (generated)
Gradle Scripts
activity_main.xml
strings.xml
MainActivity.java
activity_list_view.xml
<?xml version="1.0" encoding="utf-8"?>
<ListView xmlns:android="http://schemas.android.com/
xmlns:app="http://schemas.android.com/apk/res-a
xmlns:tools="http://schemas.android.com/tools"
android:layout_width="match_parent"
android:layout_height="match_parent"
android:entries="@array/insert_data
tools:context=".List_view">
</ListView>
Palette
Attributes
Component Tree
ListView


Android
app
manifests
java
com.example.list_view
List_view
MainActivity
com.example.list_view (androidTest)
com.example.list_view (test)
java (generated)
res
drawable
layout
activity_list_view.xml
activity_main.xml
mipmap
values
colors.xml
strings.xml
themes (2)
xml
res (generated)
Gradle Scripts
activity_main.xml
strings.xml
MainActivity.java
activity_list_view.xml
ge com.example.list_view;
t ...
c class MainActivity extends AppCompatActivity {
usages
utton btn;
Override
rotected void onCreate(Bundle savedInstanceState) {
super.onCreate(savedInstanceState);
setContentView(R.layout.activity_main);
btn = findViewById(R.id.clickme);
btn.setOnClickListener(new View.OnClickListener() {
@Override
public void onClick(View v) {
Intent intent = new Intent(packageContext: MainActivity.this, List_view.class);
startActivity(intent);
}
});