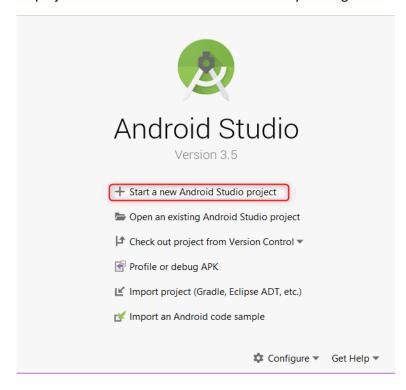
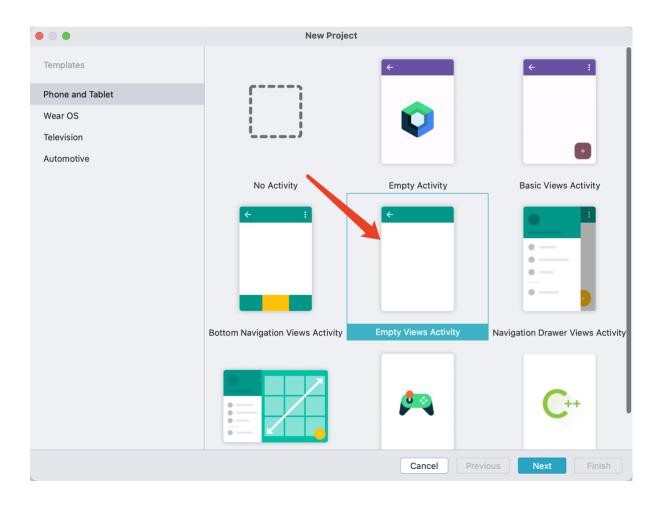
1. Create a new project in Android Studio as shown below by clicking on 'New Project'.

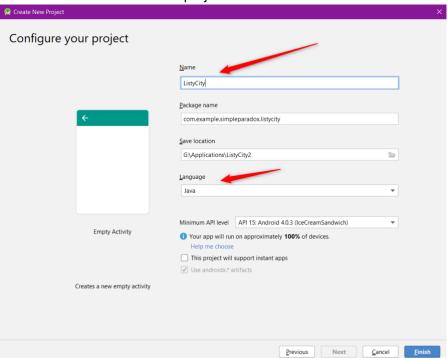


2. Select Empty Views Activity under the 'Phone and Tablet' tab. Click Next.

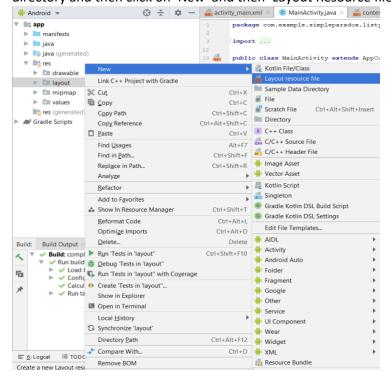


- 3. Configure your project.
  - a. Give the project a name.
  - b. Make sure the language is Java
  - c. The minimum API level should be enough so that the application runs on most devices.

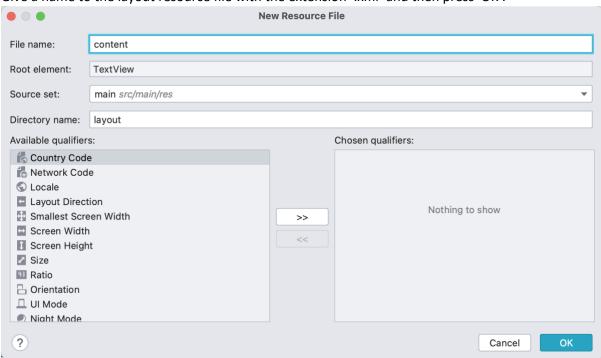
Click on finish and wait for the project to build itself.



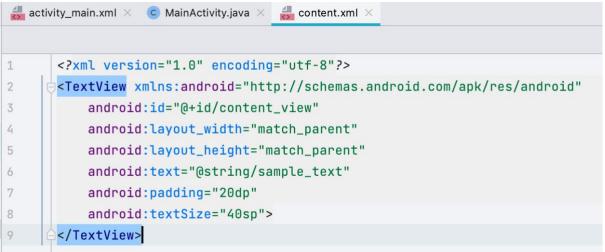
4. Navigate to app/res/layout directory in the 'Project' pane. Then right click on the 'layout' directory and then click on 'New' and then 'Layout Resource file'



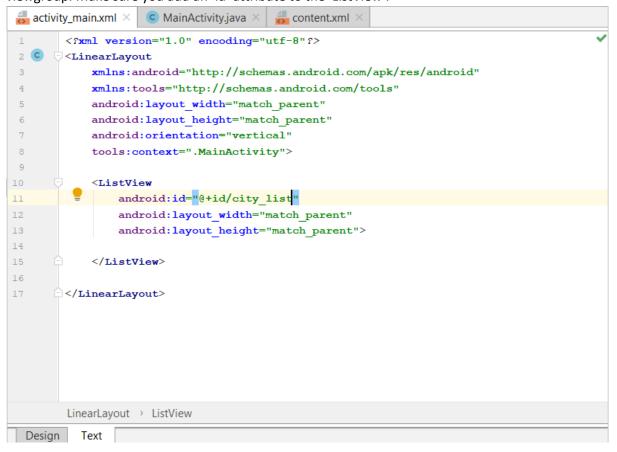
5. Give a name to the layout resource file with the extension '.xml' and then press 'OK'.



6. Now go to 'content.xml' under res/layout and then add a TextView with the following properties. Make sure the 'Text' tab is selected. Make sure you add an 'id' to the TextView.



7. Go to activy\_main.xml and add a 'ListView' inside the 'LinearLayout' or 'ConstraintLayout' viewgroup. Make sure you add an 'id' attribute to the 'ListView'.



- 8. Now let's head over to MainActivity.java file which will contain the logic for mapping the data to the 'ListView' so that it can be shown as a scrolling list.
- 9. Create References for the 'ListView' along with a reference for 'ArrayAdapter' and an 'ArrayList'.

```
🚮 activity_main.xml 🛛
1
       package com.example.simpleparadox.listycity;
2
3
       import ...
13
       public class MainActivity extends AppCompatActivity {
14
15
           // Declare the variables so that you will be able to reference it later.
          ListView cityList;
16
          ArrayAdapter<String> cityAdapter;
17
18
          ArrayList<String> dataList;
19
```

- 10. Now inside the onCreate() method, we write the logic that will help to bind the data to the 'ListView'.
  - a. First find the reference to the 'ListView' using findViewById() and assign it to the reference 'cityList'.
  - b. Then declare a string array consisting of cities which can be fed into the 'ListView' later.
  - c. Create a new 'ArrayList' and assign it to the reference 'dataList'. This will contain the data (the string array of cities).
  - d. Add the data(string array containing city names) to the 'dataList' as shown in the picture below.
  - e. Now we have to link the content.xml to the 'dataList' so that each element will be displayed in a separate row in the list.
  - f. Finally, we connect the 'ListView' to the 'ArrayAdapter' (cityAdapter) which will show each 'TextView' in the form of scrolling list.

```
package com.example.simpleparadox.listycity;
       import ...
13
      public class MainActivity extends AppCompatActivity {
           // Declare the variables so that you will be able to reference it later.
           ArrayAdapter<String> cityAdapter;
18
          ArrayList<String> dataList;
           @Override
21 🍑
           protected void onCreate(Bundle savedInstanceState) {
              super.onCreate(savedInstanceState);
              setContentView(R.layout.activity_main);
              cityList = findViewById(R.id.city list);
            String []cities ={"Edmonton", "Vancouver", "Moscow", "Sydney", "Berlin", "Vienna", "Tokyo", "Beijing", "Osaka", "New Delhi"};
28
              dataList = new ArrayList<>();
              dataList.addAll(Arrays.asList(cities));
              cityAdapter = new ArrayAdapter<>( context: this, R.layout.content, dataList);
34
              cityList.setAdapter(cityAdapter);
```