



Android Class

#Android Notes

Call In Android



How to make a phone call in android

- We are able to make a phone call in android via **implicit intent**.
- Implicit Intent is something which is sent **from one activity to inbuilt android activity** in android.
- Data is typically expressed as a **Uri** which can represent an image in the gallery, inbuilt android functionality or any web page.



Steps

- Create new project.
- Add EditText & Button inside your activity_main.xml.(Design as per your requirement)
- In MainActivity.java create object of EditText & Button and initialize it.
- Now inside onClick() method of button take on string variable that store content of EditText.
- Create an object of Intent.
- Use **ACTION_CALL** action to trigger built-in phone call functionality available in Android device.

Intent intent = new Intent(Intent.ACTION_CALL);



Cont...

- To make a phone call you need to specify **tel:** as **URI** using **setData()** method.

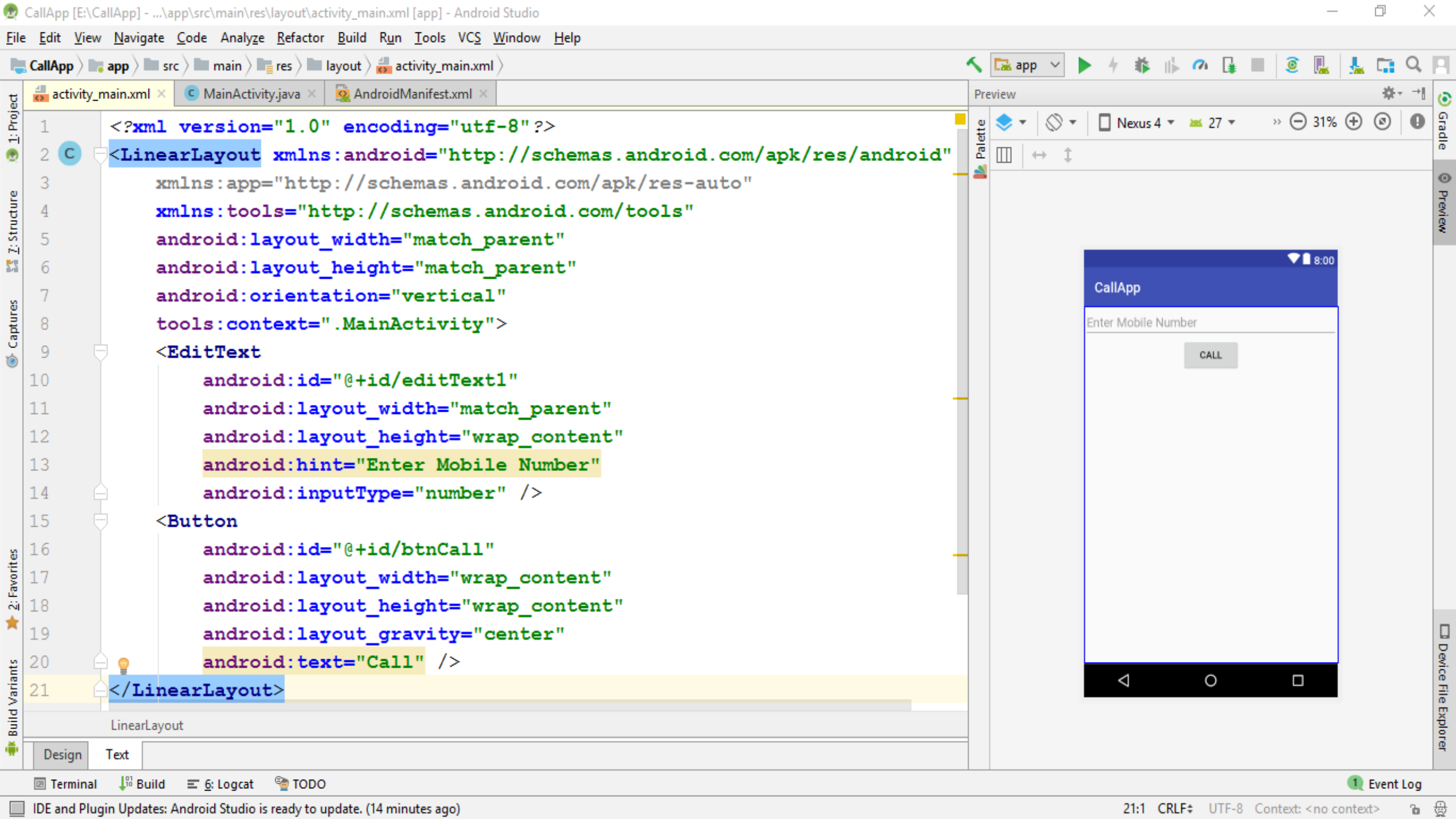
```
intent.setData(Uri.parse("tel:9978621654"));
```

- Start your intent using **startActivity()** method.
- Add **call** permission in **Manifest** file.



Output

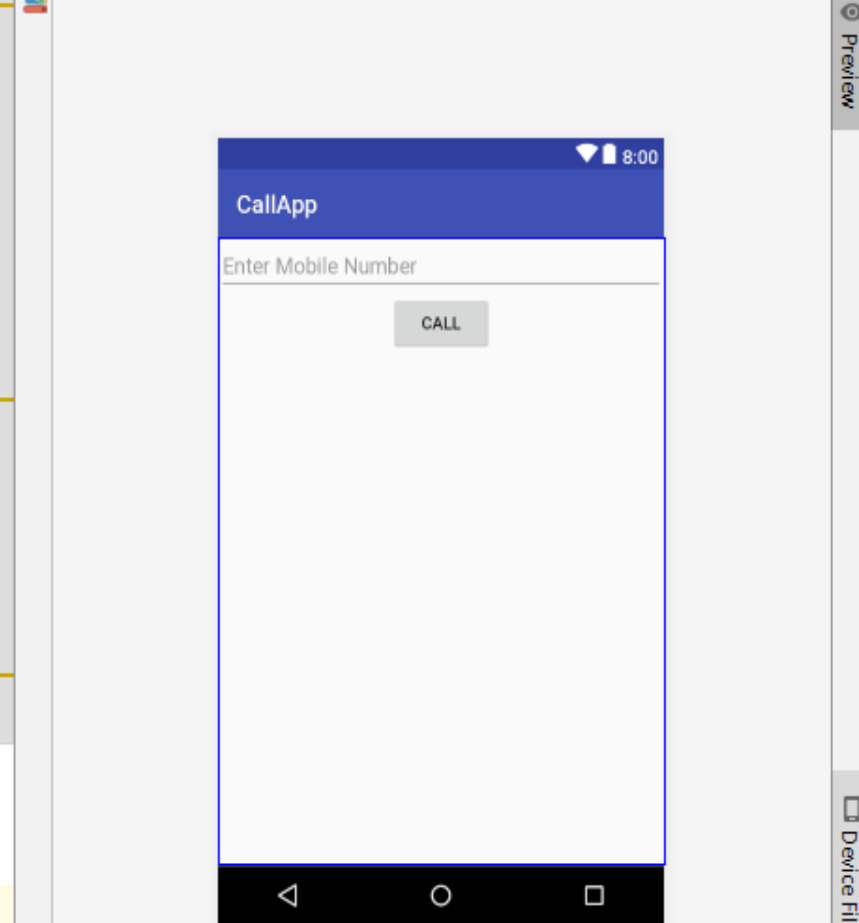




```
1 <?xml version="1.0" encoding="utf-8"?>
2 <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3   xmlns:app="http://schemas.android.com/apk/res-auto"
4   xmlns:tools="http://schemas.android.com/tools"
5   android:layout_width="match_parent"
6   android:layout_height="match_parent"
7   android:orientation="vertical"
8   tools:context=".MainActivity">
9   <EditText
10     android:id="@+id/editText1"
11     android:layout_width="match_parent"
12     android:layout_height="wrap_content"
13     android:hint="Enter Mobile Number"
14     android:inputType="number" />
15   <Button
16     android:id="@+id/btnCall"
17     android:layout_width="wrap_content"
18     android:layout_height="wrap_content"
19     android:layout_gravity="center"
20     android:text="Call" />
21 </LinearLayout>
```

LinearLayout

Design Text



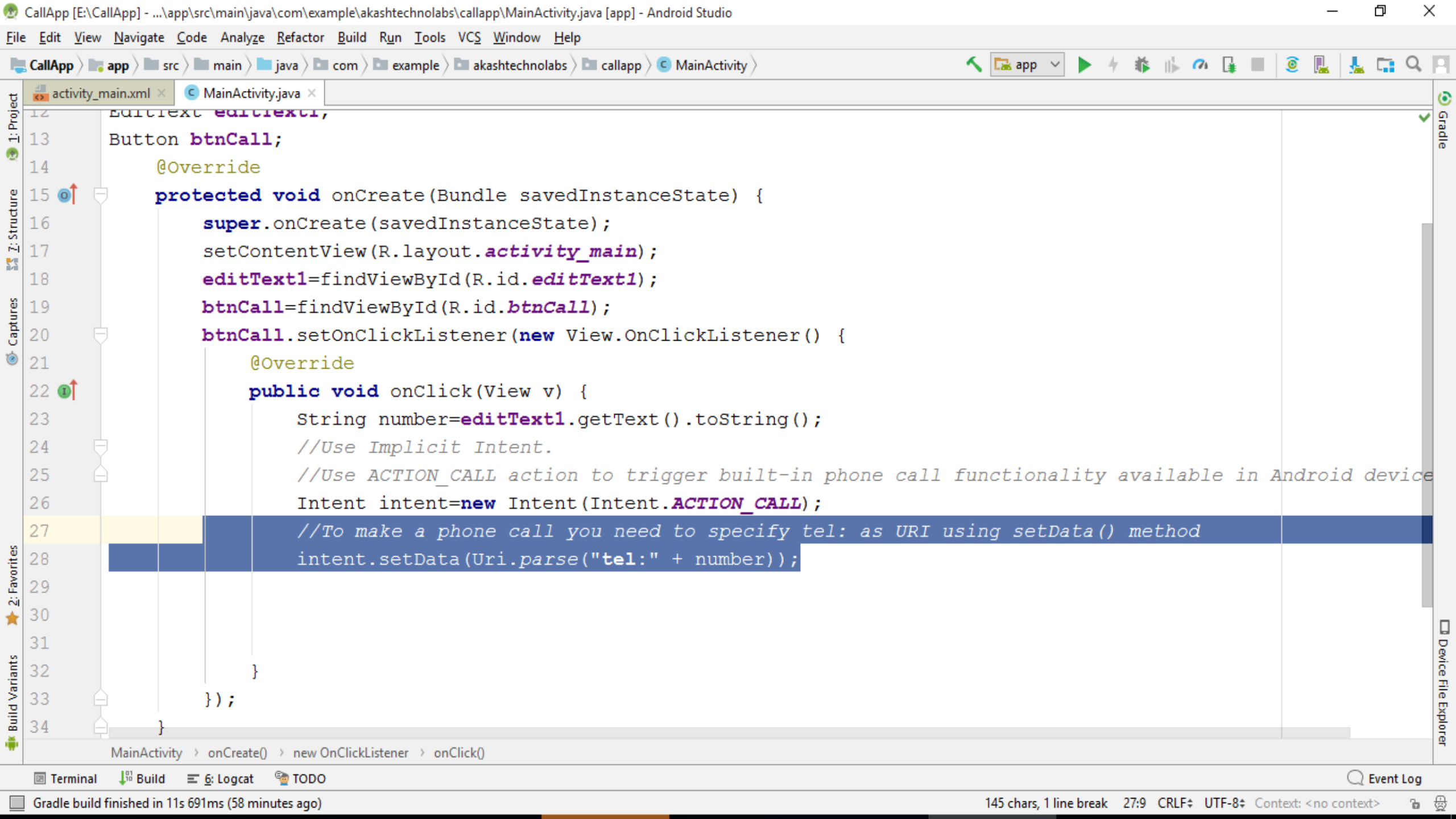
```
1 package com.example.akashtechlabs.callapp;
2
3 import ...
4
5
6
7
8
9 public class MainActivity extends AppCompatActivity {
10     EditText editText1;
11     Button btnCall;
12     @Override
13     protected void onCreate(Bundle savedInstanceState) {
14         super.onCreate(savedInstanceState);
15         setContentView(R.layout.activity_main);
16         editText1=findViewById(R.id.editText1);
17         btnCall=findViewById(R.id.btnCall);
18         btnCall.setOnClickListener(new View.OnClickListener() {
19             @Override
20             public void onClick(View v) {
21
22             }
23         });
24     }
25 }
26
```

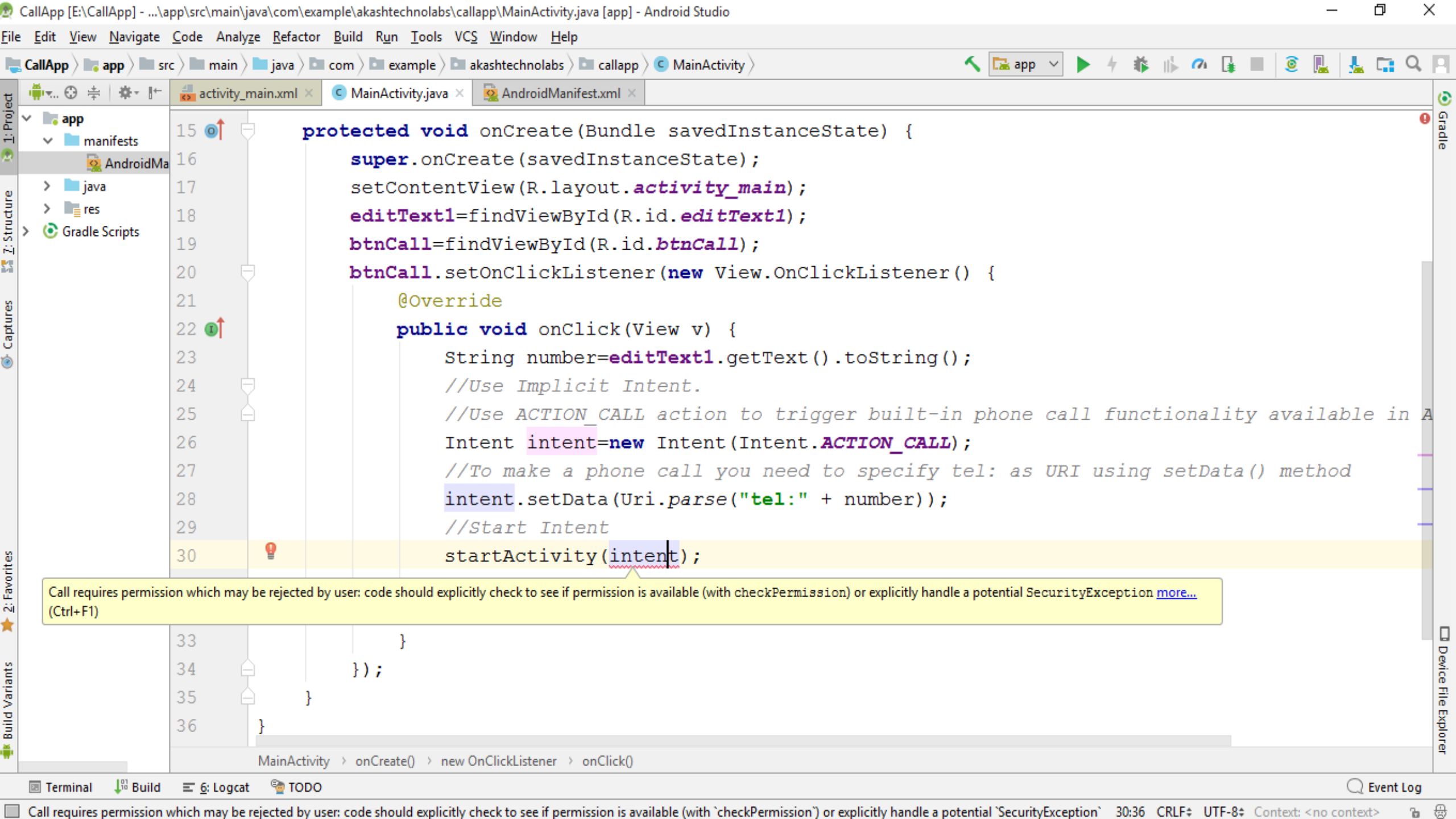


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14         super.onCreate(savedInstanceState);
15         setContentView(R.layout.activity_main);
16         editText1=findViewById(R.id.editText1);
17         btnCall=findViewById(R.id.btnCall);
18         btnCall.setOnClickListener(new View.OnClickListener() {
19             @Override
20             public void onClick(View v) {
21                 String number=editText1.getText().toString();
22             }
23         });
24     }
25 }
26
```

MainActivity > onCreate() > new OnClickListener > onClick()

```
1 package com.example.akashtechlabs.callapp;
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11 public class MainActivity extends AppCompatActivity {
12     EditText editText1;
13     Button btnCall;
14     @Override
15     protected void onCreate(Bundle savedInstanceState) {
16         super.onCreate(savedInstanceState);
17         setContentView(R.layout.activity_main);
18         editText1=findViewById(R.id.editText1);
19         btnCall=findViewById(R.id.btnCall);
20         btnCall.setOnClickListener(new View.OnClickListener() {
21             @Override
22             public void onClick(View v) {
23                 String number=editText1.getText().toString();
24                 //Use Implicit Intent.
25                 //Use ACTION_CALL action to trigger built-in phone call functionality available in Android device.
26                 Intent intent=new Intent(Intent.ACTION_CALL);
```





```
CallApp [E:\CallApp] - ...app\src\main\java\com\example\akashtechlabs\callapp\MainActivity.java [app] - Android Studio
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help

CallApp > app > src > main > java > com > example > akashtechlabs > callapp > MainActivity >
activity_main.xml x MainActivity.java x AndroidManifest.xml x

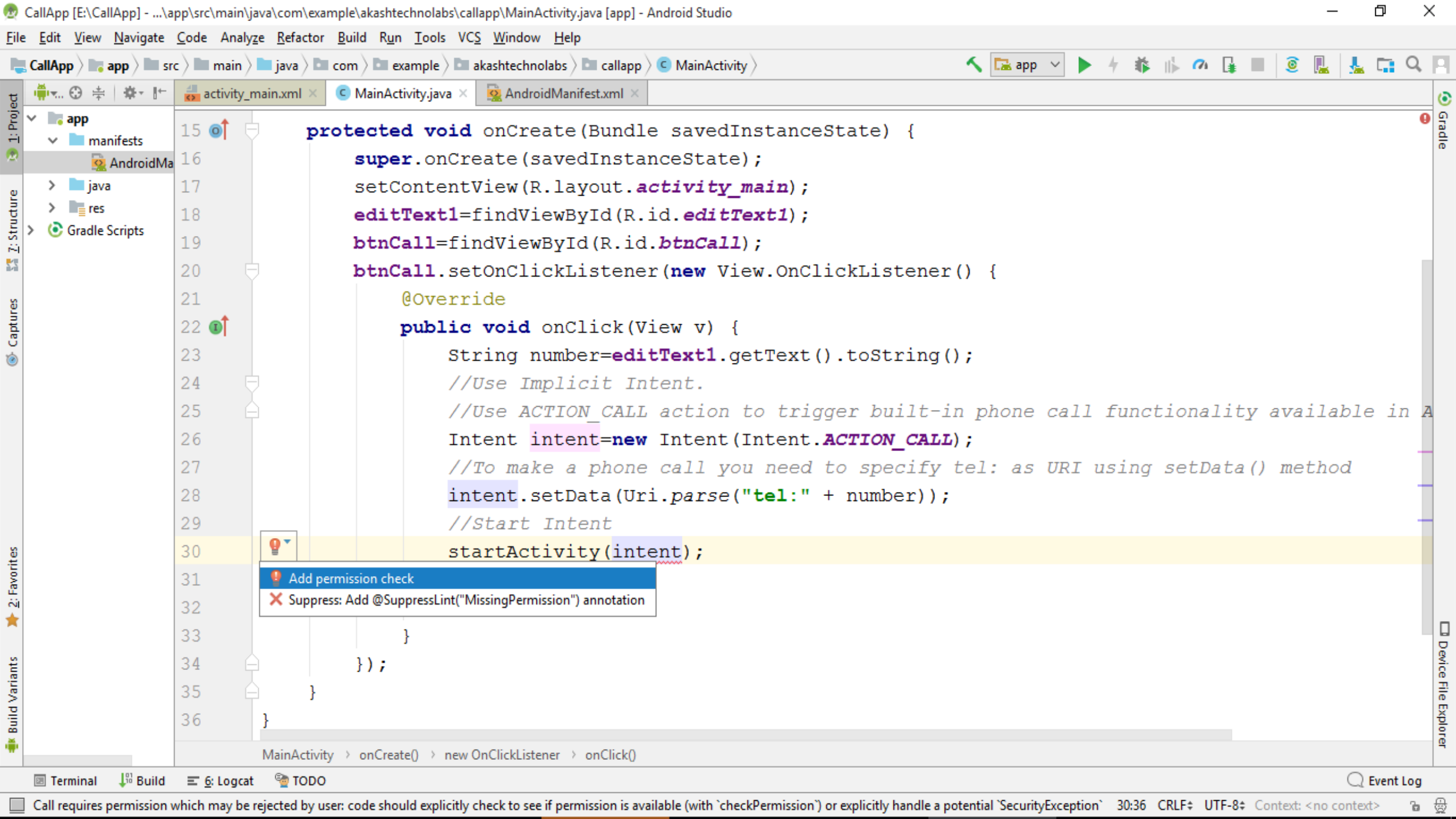
1: Project
  app
  manifests
  AndroidMa
  java
  res
  Gradle Scripts
2: Structure
Captures
2: Favorites
Build Variants
Device File Explorer

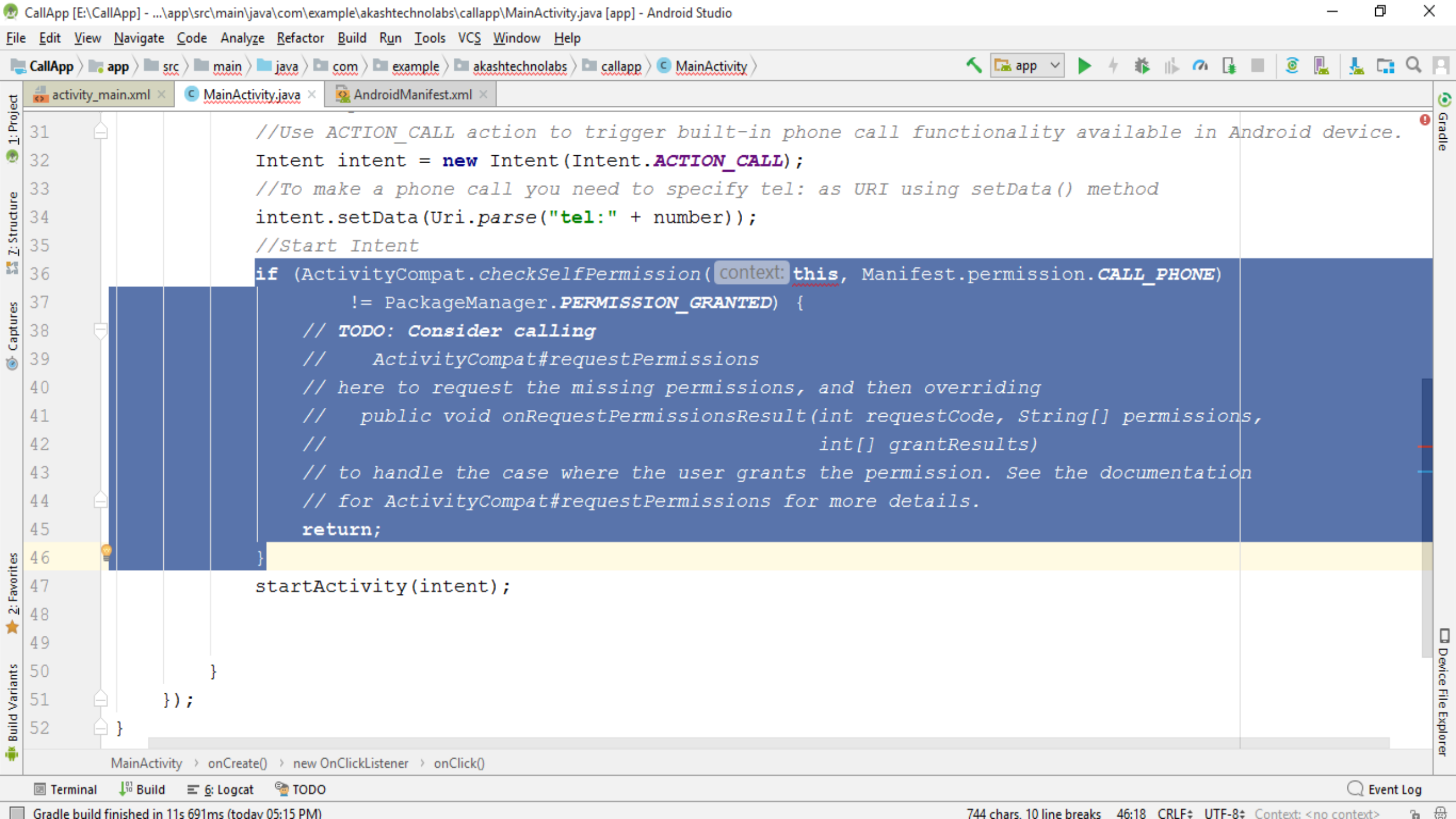
15 protected void onCreate(Bundle savedInstanceState) {
16     super.onCreate(savedInstanceState);
17     setContentView(R.layout.activity_main);
18     editText1=findViewById(R.id.editText1);
19     btnCall=findViewById(R.id.btnCall);
20     btnCall.setOnClickListener(new View.OnClickListener() {
21         @Override
22         public void onClick(View v) {
23             String number=editText1.getText().toString();
24             //Use Implicit Intent.
25             //Use ACTION_CALL action to trigger built-in phone call functionality available in A
26             Intent intent=new Intent(Intent.ACTION_CALL);
27             //To make a phone call you need to specify tel: as URI using setData() method
28             intent.setData(Uri.parse("tel:" + number));
29             //Start Intent
30             startActivity(intent);
33         }
34     });
35 }
36 }

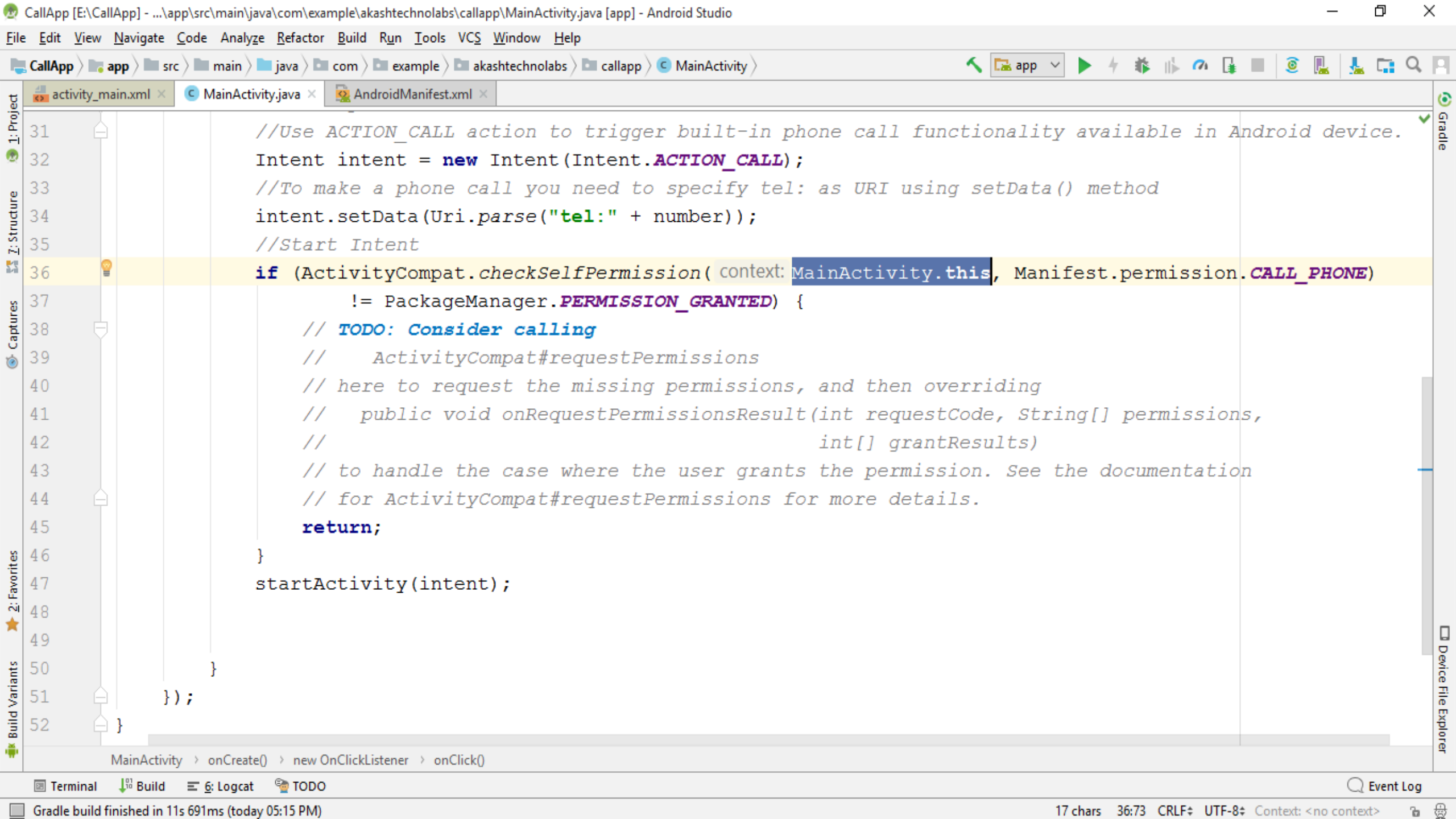
MainActivity > onCreate() > new OnClickListener > onClick()

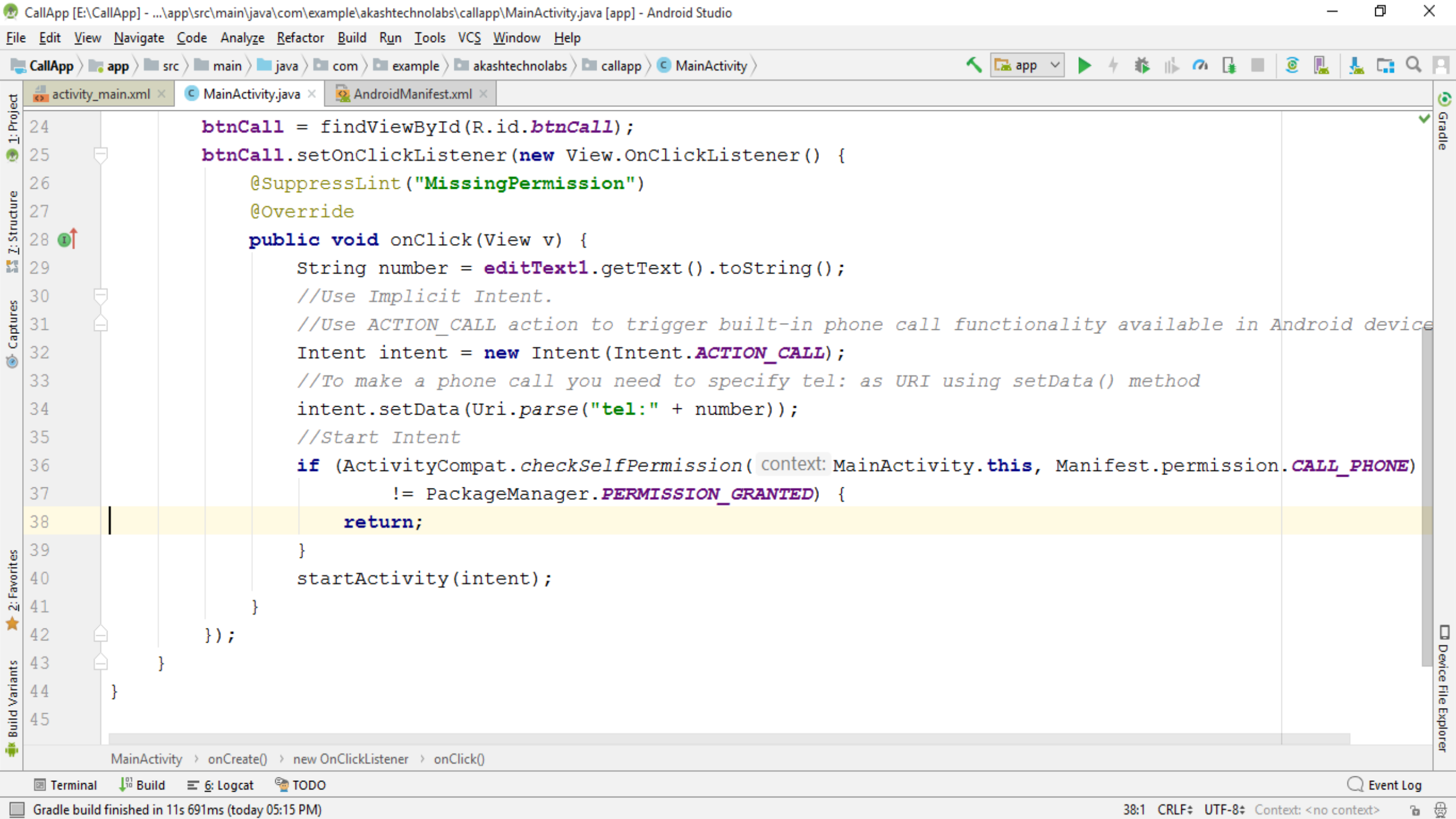
Call requires permission which may be rejected by user: code should explicitly check to see if permission is available (with checkPermission) or explicitly handle a potential SecurityException more... (Ctrl+F1)

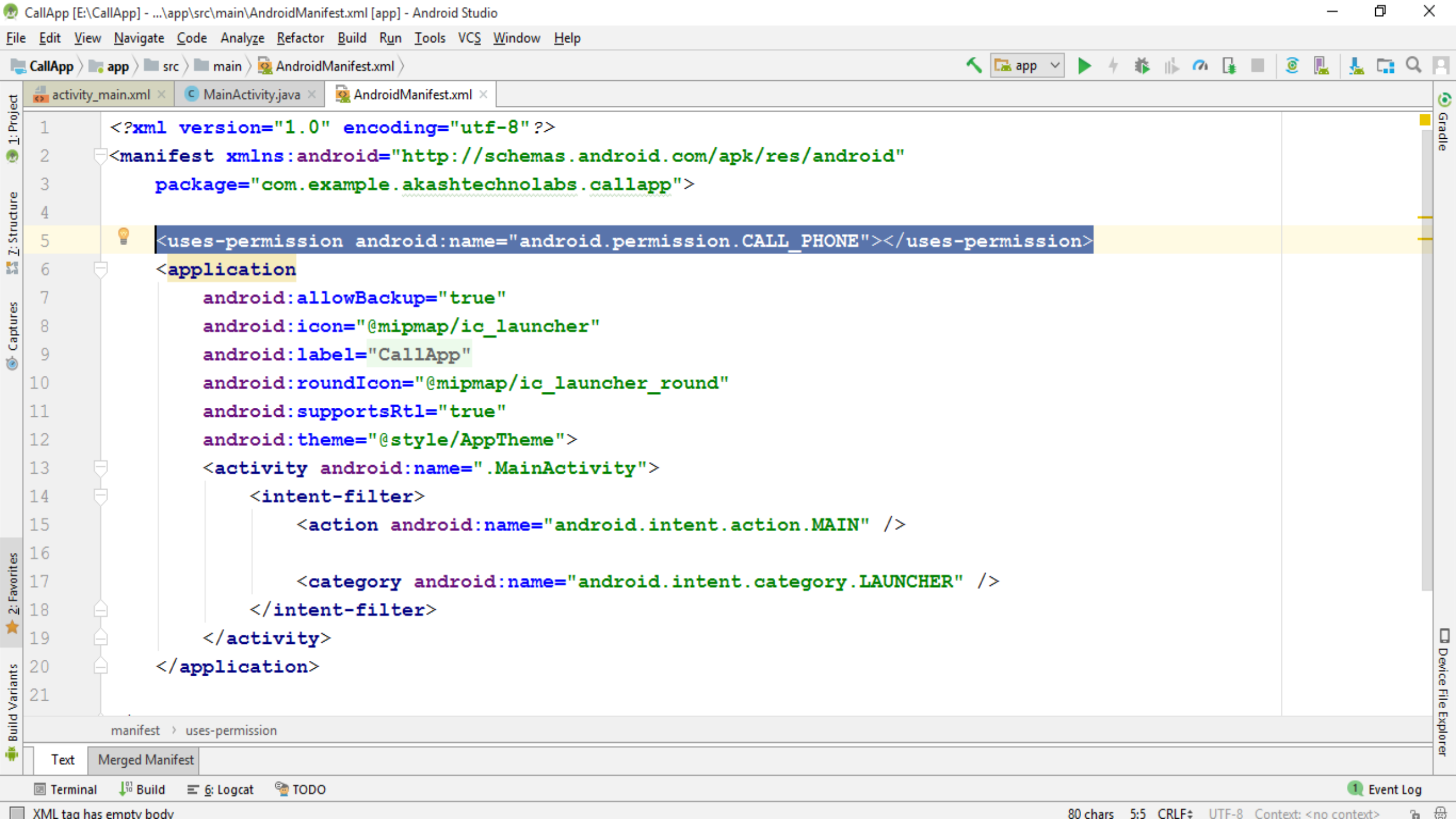
Terminal Build Logcat TODO Event Log
Call requires permission which may be rejected by user: code should explicitly check to see if permission is available (with `checkPermission`) or explicitly handle a potential `SecurityException` 30:36 CRLF UTF-8 Context: <no context>
```











Note :-

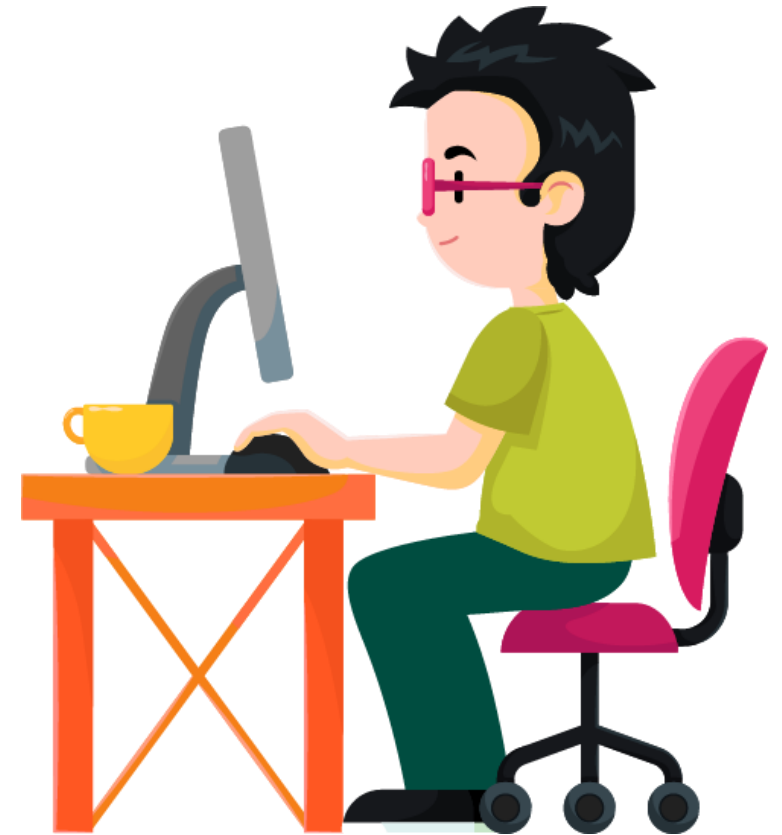
- **To run this application you have to connected your actual Android Mobile device with your computer.**



Output



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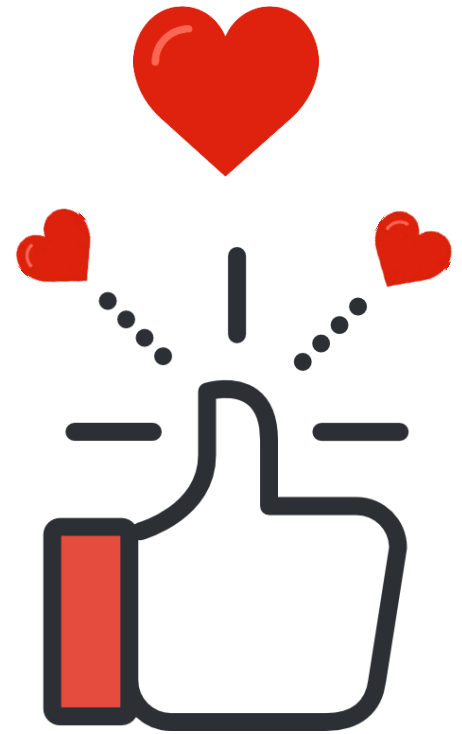
Just Dial

https://www.justdial.com/Ahmedabad/Akash-Technolabs-Navrangpura-Bus-Stop-Navrangpura/079PXX79-XX79-170615221520-S5C4_BZDET



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<https://www.sulekha.com/akash-technolabs-navrangpura-ahmedabad-contact-address/ahmedabad>



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