**BROADCAST RECEIVER**

**I. AndroidManifest.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools">  
  
 <application  
 android:allowBackup="true"  
 android:dataExtractionRules="@xml/data\_extraction\_rules"  
 android:fullBackupContent="@xml/backup\_rules"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.BroadcastReceiver"  
 tools:targetApi="31">  
 <receiver  
 android:name=".MyReceiver"  
 android:enabled="true"  
 android:exported="true">  
 </receiver>  
  
 <activity  
 android:name=".MainActivity"  
 android:exported="true">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
 </application>  
</manifest>

**II. Build.gradle (Module :app)**

buildFeatures **{** viewBinding true  
**}**

**III. Java**

1. **MainActivity**

package com.example.broadcastreceiver  
  
import android.content.BroadcastReceiver  
import android.content.Context  
import android.content.Intent  
import android.content.IntentFilter  
import androidx.appcompat.app.AppCompatActivity  
import android.os.Bundle  
import android.widget.Toast  
import com.example.broadcastreceiver.databinding.ActivityMainBinding  
  
class MainActivity : AppCompatActivity() {  
 lateinit var receiver: BroadcastReceiver  
 lateinit var binding: ActivityMainBinding  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 binding = ActivityMainBinding.inflate(*layoutInflater*)  
 setContentView(binding.*root*)  
 val filter = IntentFilter()  
 filter.addAction(Intent.*ACTION\_AIRPLANE\_MODE\_CHANGED*)  
 receiver = object: BroadcastReceiver() {  
  
 override fun onReceive(p0: Context?, p1: Intent?) {  
 val state = p1?.getBooleanExtra("state", false)  
 binding.tvStatus.setText("Airplane more: $state")  
 Toast.makeText(p0, "Airplane more: $state", Toast.*LENGTH\_SHORT*).show()  
 }  
 }  
   
 registerReceiver(receiver, filter)  
 binding.btnSend.setOnClickListener **{** *// API < 26  
 // sendBroadcast(Intent("MyReceiver"))  
 // API >= 26* sendBroadcast(Intent(*applicationContext*, MyReceiver::class.*java*))  
 **}** }  
  
 override fun onDestroy() {  
 unregisterReceiver(receiver)  
 super.onDestroy()  
 }  
}

1. **MyReceiver**

package com.example.broadcastreceiver  
  
import android.content.BroadcastReceiver  
import android.content.Context  
import android.content.Intent  
import android.widget.Toast  
  
class MyReceiver : BroadcastReceiver() {  
 override fun onReceive(context: Context, intent: Intent) {  
 Toast.makeText(context, "MyReceiver", Toast.*LENGTH\_SHORT*).show()  
 }  
}

**III. Res -> Layout**

1. **activity\_main.xml**

*<?*xml version="1.0" encoding="utf-8"*?>*<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 android:gravity="center"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/tvStatus"  
 android:gravity="center"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:text="Hello World!"  
 android:textSize="24sp"  
 android:padding="10dp"/>  
  
 <Button  
 android:id="@+id/btnSend"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Send"/>  
  
</LinearLayout>

