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**Class:** Final Year B. Tech CSE **Batch:** B2

**Title: Write a program to study and demonstrate Broadcast Receiver.**

**MainActivity.java**

package com.example.broadcastreceiver;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.Intent;  
import android.content.IntentFilter;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.EditText;  
  
public class MainActivity extends AppCompatActivity {  
  
 AirplaneModeChangeReceiver airplaneModeChangeReceiver = new AirplaneModeChangeReceiver();  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 }  
  
 @Override  
 protected void onStart() {  
 super.onStart();  
 IntentFilter filter = new IntentFilter(Intent.*ACTION\_AIRPLANE\_MODE\_CHANGED*);  
 registerReceiver(airplaneModeChangeReceiver, filter);  
 }  
  
 @Override  
 protected void onStop() {  
 super.onStop();  
 unregisterReceiver(airplaneModeChangeReceiver);  
 }  
}

**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"  
 tools:context=".MainActivity">  
  
</LinearLayout>

**AirplaneModeChangeReceiver.java**

package com.example.broadcastreceiver;  
  
import android.content.BroadcastReceiver;  
import android.content.Context;  
import android.content.Intent;  
import android.provider.Settings;  
import android.widget.Toast;  
  
public class AirplaneModeChangeReceiver extends BroadcastReceiver {  
  
 @Override  
 public void onReceive(Context context, Intent intent) {  
  
 if (*isAirplaneModeOn*(context.getApplicationContext())) {  
 Toast.*makeText*(context, "AirPlane mode is on", Toast.*LENGTH\_SHORT*).show();  
 } else {  
 Toast.*makeText*(context, "AirPlane mode is off", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
  
 private static boolean isAirplaneModeOn(Context context) {  
 return Settings.System.*getInt*(context.getContentResolver(), Settings.Global.*AIRPLANE\_MODE\_ON*, 0) != 0;  
 }  
}

**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">  
  
 <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>

**Output:**

 

 