# Practical No : 08

# Aim: Program to demonstrate Broadcast Receiver

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# Code:

# MainActivity.java

package com.example.cst;  
import androidx.appcompat.app.AppCompatActivity;  
import android.content.Intent;  
import android.content.IntentFilter;  
import android.os.Bundle;  
  
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);  
 }  
}

**AirplaneModeChangeReceiver.java**

package com.example.cst;  
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\_LONG*).show();  
 } else {  
 Toast.*makeText*(context, "AirPlane mode is off", Toast.*LENGTH\_LONG*).show();  
 }  
 }

private static boolean isAirplaneModeOn(Context context) {  
 return Settings.System.*getInt*(context.getContentResolver(), Settings.Global.*AIRPLANE\_MODE\_ON*, 0) != 0;  
 }  
}

**activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>  
  
<androidx.constraintlayout.widget.ConstraintLayout 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"  
 tools:context=".MainActivity">  
  
  
 <TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**Strings.xml**

<resources>  
 <string name="app\_name">Broadcast App</string>  
</resources>

**Colors.xml**

<resources>  
 <color name="colorPrimary">#6200EE</color>  
 <color name="colorPrimaryDark">#3700B3</color>  
 <color name="colorAccent">#03DAC5</color>  
</resources>

**AndroidManifest.xml**

<?xml version="1.0" encoding="utf-8"?>  
<manifest xmlns:android="http://schemas.android.com/apk/res/android"  
 package="com.example.cst">  
  
 <application  
 android:allowBackup="true"  
 android:icon="@mipmap/ic\_launcher"  
 android:label="@string/app\_name"  
 android:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/AppTheme">  
 <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 :**



