**19. Develop a program to demonstrate any sample system or custom broadcast message.**

**XML Code**

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 android:padding="16dp"  
 android:gravity="center">  
  
 <!-- Title Text -->  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Airplane Mode Toggle"  
 android:textSize="28sp"  
 android:textStyle="bold"  
 android:layout\_marginTop="50dp"  
 android:gravity="center"  
 android:layout\_marginBottom="20dp" />  
  
 <!-- ToggleButton to simulate Airplane Mode toggle -->  
 <ToggleButton  
 android:id="@+id/toggleButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textOn="Airplane Mode ON"  
 android:textOff="Airplane Mode OFF"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="30dp" />  
  
</LinearLayout>

**Java Code**

package com.example.pr19\_broadcast\_message;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.provider.Settings;  
import android.widget.CompoundButton;  
import android.widget.Toast;  
import androidx.appcompat.app.AppCompatActivity;  
import android.widget.ToggleButton;  
  
public class MainActivity extends AppCompatActivity {  
  
 ToggleButton toggleButton;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 toggleButton = findViewById(R.id.*toggleButton*);  
  
 toggleButton.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {  
 @Override  
 public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {  
 if (isChecked) {  
  
 Intent intent = new Intent(Settings.*ACTION\_AIRPLANE\_MODE\_SETTINGS*);  
 startActivity(intent);  
  
 Toast.*makeText*(MainActivity.this, "Opening Airplane Mode settings", Toast.*LENGTH\_SHORT*).show();  
 } else {  
  
 Intent intent = new Intent(Settings.*ACTION\_AIRPLANE\_MODE\_SETTINGS*);  
 startActivity(intent);  
  
 Toast.*makeText*(MainActivity.this, "Opening Airplane Mode settings", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 });  
 }  
}

**MyReceiver.java**

package com.example.pr19\_broadcast\_message;  
import android.content.BroadcastReceiver;  
import android.content.Context;  
import android.content.Intent;  
import android.provider.Settings;  
import android.widget.Toast;  
  
public class MyReceiver extends BroadcastReceiver {  
  
 @Override  
 public void onReceive(Context context, Intent intent) {  
 // Check if the broadcast is about Airplane Mode change  
 if (Intent.*ACTION\_AIRPLANE\_MODE\_CHANGED*.equals(intent.getAction())) {  
 boolean isAirplaneModeOn = intent.getBooleanExtra("state", true);  
  
 // Show a Toast message based on Airplane Mode state  
 if (isAirplaneModeOn) {  
 Toast.*makeText*(context, "Airplane Mode is ON", Toast.*LENGTH\_SHORT*).show();  
 } else {  
 Toast.*makeText*(context, "Airplane Mode is OFF", Toast.*LENGTH\_SHORT*).show();  
 }  
 }  
 }  
}