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Practical No: 21

1. Write a program to implement Broadcast Reciever

Broadcast.java

package com.example.mad\_playground;  
  
import android.content.BroadcastReceiver;  
import android.content.Context;  
import android.content.Intent;  
import android.provider.Settings;  
import android.widget.Toast;  
  
public class MADEXP21\_Broadcast 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;  
 }  
}

MainActivity.java

package com.example.mad\_playground;  
  
import androidx.appcompat.app.AppCompatActivity;  
import android.os.Bundle;  
  
import android.content.Intent;  
import android.content.IntentFilter;  
  
public class MADEXP21\_MainActivity extends AppCompatActivity {  
 MADEXP21\_Broadcast myReciever = new MADEXP21\_Broadcast();  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*exp21\_main\_activity*);  
 }  
 @Override  
 protected void onStart() {  
 super.onStart();  
 IntentFilter filter = new IntentFilter(Intent.*ACTION\_AIRPLANE\_MODE\_CHANGED*);  
 registerReceiver(myReciever, filter);  
 }  
 @Override  
 protected void onStop() {  
 super.onStop();  
 unregisterReceiver(myReciever);  
 }  
}

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:roundIcon="@mipmap/ic\_launcher\_round"  
 android:supportsRtl="true"  
 android:theme="@style/Theme.MAD\_Playground"  
 tools:targetApi="31">  
 <activity  
 android:name=".MADEXP26\_MainActivity"  
 android:exported="false" />  
 <activity  
 android:name=".MADEXP21\_MainActivity"  
 android:exported="true">  
 <intent-filter>  
 <action android:name="android.intent.action.MAIN" />  
  
 <category android:name="android.intent.category.LAUNCHER" />  
 </intent-filter>  
 </activity>  
 <receiver android:name=".MADEXP21\_Broadcast"/>  
 </application>  
  
</manifest>

OUTPUT:

