**Aim:- Programs on Services, notification and broadcast receivers.**

**Activity\_main.xml:-**

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout 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:background="@color/teal\_200"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:layout\_width="213dp"  
 android:layout\_height="73dp"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="56dp"  
 android:layout\_marginBottom="560dp"  
 android:background="@color/teal\_200"  
 android:text="Android Broadcast"  
 android:textAlignment="center"  
 android:textColor="@color/black"  
 android:textSize="25dp"  
 android:textStyle="bold"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.498"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"  
 app:layout\_constraintVertical\_bias="0.067" />  
  
 <ImageView  
 android:id="@+id/imageView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="116dp"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="262dp"  
 android:layout\_marginBottom="543dp"  
 app:srcCompat="@drawable/air" />  
  
</RelativeLayout>

**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.Broadcast"  
 tools:targetApi="31">  
 <receiver  
 android:name=".MyReceiver"  
 android:enabled="true"  
 android:exported="true">  
 <intent-filter>  
 <action android:name="android.intent.action.AIRPLANE\_MODE"/>  
 </intent-filter>  
 </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>  
  
 <meta-data  
 android:name="android.app.lib\_name"  
 android:value="" />  
 </activity>  
 </application>  
  
</manifest>

**MyReceiver.kt :-**

**package** com.example.broadcast  
  
**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) {  
*//* ***TODO: This method is called when the BroadcastReceiver is receiving****// an Intent broadcast.* Toast.makeText(context, **"Broadcast : Flight mode changed."**,  
 Toast.*LENGTH\_LONG*).show()  
 }  
}

**MyActivity.kt** :-

package com.example.broadcast  
  
import androidx.appcompat.app.AppCompatActivity  
import android.os.Bundle  
  
class MainActivity : AppCompatActivity() {  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 setContentView(R.layout.*activity\_main*)  
 }  
}

**Output :-**

