Practical No :- 8

Aim :- Create an android app to connect to the internet and use BroadcastReceiver.

Code :-

1.Airplane Mode.

MainActivity.java

```java
package com.example.myapplication;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.content.IntentFilter;
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {
AirplaneModeChangerReciver airplaneModeChangerReciver = new AirplaneModeChangerReciver();

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
        protected void onStart(){
            super.onStart();
            IntentFilter fliter = new
            IntentFilter(Intent.ACTION_AIRPLANE_MODE_CHANGED);
            registerReceiver(airplaneModeChangerReciver,fliter);
        }
        @Override
        protected void onStop(){
            super.onStop();
            unregisterReceiver(airplaneModeChangerReciver);

    } }
```
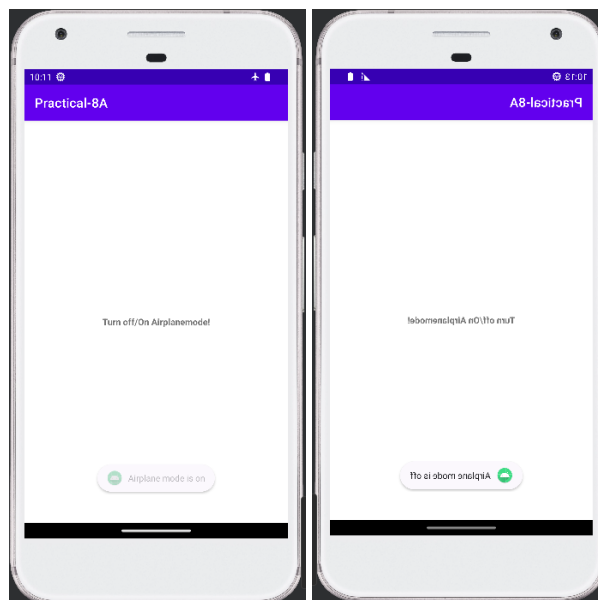
AirplaneModeChangerReciver.java

```java
package com.example.myapplication;

import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.provider.Settings;
import android.widget.Toast;

public class AirplaneModeChangerReciver 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;
    }
}
```

Output :-

2.Internet Connectivity.

MainActivity.java

```java
package com.example.practiacl;

import androidx.appcompat.app.AppCompatActivity;
import android.content.Context;
import android.net.ConnectivityManager;
import android.os.Bundle;
import android.widget.Toast;

public class MainActivity extends AppCompatActivity {
Context context;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        if(!isConnected()){
            Toast.makeText(this, "No Internet Access",
        Toast.LENGTH_LONG).show(); }
        else{
            Toast.makeText(this, "Welcome to Our App",
        Toast.LENGTH_LONG).show(); }
    }

    private boolean isConnected(){
        ConnectivityManager connectivityManager = (ConnectivityManager)
    getApplicationContext().getSystemService(context.CONNECTIVITY_SERVIC
        E); return connectivityManager.getActiveNetworkInfo()!=null &&
connectivityManager.getActiveNetworkInfo().isConnectedOrConnecting();
    }
}
```

AndroidManifest.xml :-

```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">
<!--    Gives the acces permission -->
    <uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
    <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.Practical8B"
      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>

        <meta-data
          android:name="android.app.lib_name"
          android:value="" />
      </activity>
   </application>

</manifest>
```

Output:-