

Practical 21

MainActivity.java

```
package com.example.practical21;

import androidx.appcompat.app.AppCompatActivity;
import android.content.IntentFilter;
import android.os.Bundle;

public class MainActivity extends AppCompatActivity {

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity_main);

        MyReceiver mr=new MyReceiver();

        IntentFilter i1=new IntentFilter("android.intent.action.AIRPLANE_MODE");

        registerReceiver(mr,i1);

        IntentFilter i2=new IntentFilter("android.intent.action.BATTERY_LOW");

        registerReceiver(mr,i2);

        IntentFilter i3=new IntentFilter("android.intent.action.BATTERY_OKAY");

        registerReceiver(mr,i3);

        IntentFilter i4=new IntentFilter("android.intent.action.ACTION_POWER_CONNECTED");

        registerReceiver(mr,i4);

        IntentFilter i5=new IntentFilter("android.intent.action.ACTION_POWER_DISCONNECTED");

        registerReceiver(mr,i5);

    }
}
```

MyReceiver.java

```
package com.example.practical21;

import android.content.BroadcastReceiver;
import android.content.Context;
import android.content.Intent;
import android.util.Log;
```

```

import android.widget.Toast;

public class MyReceiver extends BroadcastReceiver {
    @Override
    public void onReceive(Context context, Intent intent) {
        // TODO: This method is called when the BroadcastReceiver is receiving
        if(intent.getAction()=="android.intent.action.AIRPLANE_MODE")
            Toast.makeText(context,"Airplane mode",Toast.LENGTH_LONG).show();
        if(intent.getAction()=="android.intent.action.BATTERY_LOW")
            Toast.makeText(context,"Battery Low",Toast.LENGTH_LONG).show();
        if(intent.getAction()=="android.intent.action.BATTERY_OKAY")
            Toast.makeText(context,"Battery okay",Toast.LENGTH_LONG).show();
        if(intent.getAction()=="android.intent.action.ACTION_POWER_CONNECTED")
            Toast.makeText(context,"Charging on",Toast.LENGTH_LONG).show();
        if(intent.getAction()=="android.intent.action.ACTION_POWER_DISCONNECTED")
            Toast.makeText(context,"Charger disconnected",Toast.LENGTH_LONG).show();
    }
}

```

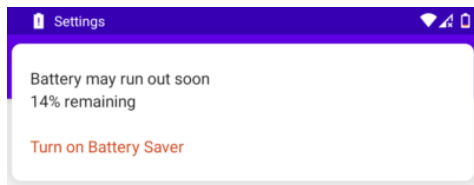
AndroidManifest.xml

```

<?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:supportsRtl="true"
        android:theme="@style/Theme.Practical21"
        tools:targetApi="31">

```

```
<receiver
    android:name=".MyReceiver"
    android:enabled="true"
    android:exported="true">
    <intent-filter>
        <action android:name="android.intent.action.AIRPLANE_MODE"></action>
        <action android:name="android.intent.action.BATTERY_LOW"></action>
        <action android:name="android.intent.action.ACTION_POWER_CONNECTED"></action>
        <action android:name="android.intent.action.ACTION_POWER_DISCONNECTED"></action>
        <action android:name="android.intent.action.BATTERY_OKAY"></action>
    </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>
</activity>
</application>
</manifest>
```



Hello World!

Hello World!

Charger disconnected

Battery okay



Hello World!

Hello World!

Charging on

Airplane mode

