```xml
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.training.powerreceiverapp">

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.PowerReceiverApp">
        <receiver
            android:name=".PowerBroadcastReceiver"
            android:enabled="true"
            android:exported="true">
            <intent-filter>
                <action
android:name="android.intent.action.ACTION_POWER_CONNECTED"/>
                <action
android:name="android.intent.action.ACTION_POWER_DISCONNECTED"/>
            </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>
```

```java
package com.training.powerreceiverapp;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
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);

        IntentFilter intentFilter=new IntentFilter();
        intentFilter.addAction(Intent.ACTION_POWER_DISCONNECTED);
        intentFilter.addAction(Intent.ACTION_POWER_CONNECTED);

        //register broadcast receiver dynamically
        registerReceiver(new PowerBroadcastReceiver(),intentFilter);

    }

    @Override
    protected void onDestroy() {
        super.onDestroy();
        unregisterReceiver(new PowerBroadcastReceiver());
    }
}
```

```java
package com.training.powerreceiverapp;

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

public class PowerBroadcastReceiver extends BroadcastReceiver {

    @Override
    public void onReceive(Context context, Intent intent) {
        // TODO: This method is called when the BroadcastReceiver is
receiving
```

```
        // an Intent broadcast.

        Toast.makeText(context,"ACTION_POWER
CONNECTED/DISCONNECTED",Toast.LENGTH_SHORT).show();

        throw new UnsupportedOperationException("Not yet implemented");
    }
}
```