Q-3. Write a code example to show the use of BrightnessAdjuster broadcast by adjusting the phone brightness a/c to time of phone. For eg, if the time is between 7PM to 5AM, it will adjust the brightness to minimum otherwise, adjust the brightness to maximum.

<https://github.com/18mca8021/>BrightnessApp

Code:

Activity\_main.xml

<**RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:paddingBottom="@dimen/activity\_vertical\_margin"  
 android:paddingLeft="@dimen/activity\_horizontal\_margin"  
 android:paddingRight="@dimen/activity\_horizontal\_margin"  
 android:paddingTop="@dimen/activity\_vertical\_margin"  
 tools:context=".MainActivity"  
 android:background="@drawable/ic\_launcher\_foreground"  
 android:id="@+id/relativelayout"** >  
  
 <**SeekBar  
 android:id="@+id/seekBar1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentLeft="true"  
 android:layout\_centerVertical="true"  
 android:max="255"** />  
  
 <**TextView  
 android:id="@+id/textView1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_above="@+id/seekBar1"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginBottom="16dp"  
 android:text="Screen Brightness"  
 android:textAppearance="?android:attr/textAppearanceLarge"** />  
  
</**RelativeLayout**>

MainActivity.java

**package** com.example.brightnessapp;  
  
**import** android.content.Context;  
**import** android.os.Bundle;  
**import** android.provider.Settings;  
**import** android.widget.SeekBar;  
**import** android.widget.TextView;  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 SeekBar **seekbar**;  
 TextView **progress**;  
 Context **context**;  
 **int Brightness**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate( savedInstanceState );  
 setContentView( R.layout.***activity\_main*** );  
  
 **seekbar** = findViewById( R.id.***seekBar1*** );  
 **progress** = findViewById( R.id.***textView1*** );  
 **context** = getApplicationContext();  
  
 **Brightness** = Settings.System.*getInt*( **context**.getContentResolver(), Settings.System.***SCREEN\_BRIGHTNESS***, 0  
 );  
  
 **seekbar**.setProgress( **Brightness** );  
 **progress**.setText( **"Screen Brightness : "** + **Brightness** );  
  
 **seekbar**.setOnSeekBarChangeListener( **new** SeekBar.OnSeekBarChangeListener() {  
 @Override  
 **public void** onProgressChanged(SeekBar seekBar, **int** i, **boolean** b) {  
  
 **progress**.setText( **"Screen Brightness : "** + i );  
 Settings.System.*putInt*( **context**.getContentResolver(), Settings.System.***SCREEN\_BRIGHTNESS***, i  
 );  
 }  
  
 @Override  
 **public void** onStartTrackingTouch(SeekBar seekBar) {  
  
 }  
  
 @Override  
 **public void** onStopTrackingTouch(SeekBar seekBar) {  
  
 }  
 } );  
 }  
  
 }

Output

