*File name: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"  
 tools:context=".MainActivity"**>  
 <**TimePicker  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/timepicker"**>  
 android:layout\_alignparentTop="true">  
 </**TimePicker**>  
 <**ToggleButton  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/togglebutton"**/>  
 android:layout\_alignparentTop="true">  
 </**RelativeLayout**>

File name:ralarm.java

**package** com.example.uralarm;  
**import** android.app.AlarmManager;  
**import** android.content.BroadcastReceiver;  
**import** android.content.Context;  
**import** android.content.Intent;  
**import** android.media.Ringtone;  
**import** android.media.RingtoneManager;  
**import** android.net.Uri;  
**public class** ralarm **extends** BroadcastReceiver {  
 @Override  
 **public void** onReceive(Context context, Intent intent) {  
 Uri alarmUri = RingtoneManager.*getDefaultUri*(RingtoneManager.***TYPE\_ALARM***);  
 **if** (alarmUri == **null**){  
 alarmUri = RingtoneManager.*getDefaultUri*(RingtoneManager.***TYPE\_NOTIFICATION***);  
  
 }  
 Ringtone ringtone = RingtoneManager.*getRingtone*(context, alarmUri);  
 ringtone.play();  
  
 }  
}

file name:main\_activity.java

**package** com.example.uralarm;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** android.app.AlarmManager;  
**import** android.app.PendingIntent;  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.TimePicker;  
**import** android.widget.Toast;  
**import** android.widget.ToggleButton;  
  
**import** java.util.Calendar;  
  
**public class** MainActivity **extends** AppCompatActivity{  
 **private** TimePicker **timepicker**;  
 **private** ToggleButton **toggleButton**;  
 **private** android.app.AlarmManager **AlarmManager**;  
 **private** PendingIntent **pendingIntent**;  
  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **timepicker** = findViewById(R.id.***timepicker***);  
 **toggleButton** = findViewById(R.id.***togglebutton***);  
 **AlarmManager** = (AlarmManager) getSystemService(***ALARM\_SERVICE***);  
 **toggleButton**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
  
 **if** (**toggleButton**.isChecked()) {  
 Toast.*makeText*(MainActivity.**this**, **"Alarm is ON"**, Toast.***LENGTH\_SHORT***).show();  
 Intent i = **new** Intent(MainActivity.**this**, ralarm.**class**);  
 **pendingIntent** = **pendingIntent**.*getBroadcast*(MainActivity.**this**, 0, i, 0);  
 Calendar calendar = Calendar.*getInstance*();  
 calendar.set(calendar.***HOUR\_OF\_DAY***,**timepicker**.getHour());  
 calendar.set(calendar.***MINUTE***,**timepicker**.getMinute());  
  
 **long** time = calendar.getTimeInMillis() - (calendar.getTimeInMillis() % 60000);  
 **if** (System.*currentTimeMillis*() > time) {  
 **if** (calendar.***AM\_PM*** == 0) {  
  
 time = time + (1000 \* 60 \* 60 \* 12);  
 }  
  
 **else** {  
 time = time + (1000 \* 60 \* 60 \* 24);  
 }  
 }  
 **AlarmManager**.setRepeating(**AlarmManager**.***RTC\_WAKEUP***, time , 0,**pendingIntent**);  
  
  
  
 }  
  
 **else** {  
 **AlarmManager**.cancel(**pendingIntent**);  
 Toast.*makeText*(MainActivity.**this**, **"Alarm is OFF"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
 });  
 }  
 }