



3 Seconds to Alarm



stop_alarm



Alarmed.

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.alarm_final"
    android:versionCode="1"
    android:versionName="1.0" >
    <uses-sdk
        android:minSdkVersion="8"
        android:targetSdkVersion="17" />
    <application
        android:allowBackup="true"
        android:icon="@drawable/ic_launcher"
        android:label="@string/app_name"
        android:theme="@style/AppTheme" >
        <activity
            android:name="com.example.alarm_final.MainActivity"
            android:label="@string/app_name" >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity
            android:name="com.example.alarm_final.AlarmReceiverActivity"
            android:label="@string/title_activity_alarm_receiver" >
        </activity>
    </application> </manifest>
```

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/r11"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"
    android:gravity="center"
    android:orientation="vertical" >

    <TextView
        android:id="@+id/test"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="alarm_hello" />

</RelativeLayout>
```

MainActivity.java

```
package com.example.alarm_final;

import java.util.Calendar;
import android.app.Activity;
import android.app.AlarmManager;
import android.app.PendingIntent;
import android.content.Intent;
import android.os.Bundle;
import android.os.Handler;
import android.view.MotionEvent;
import android.view.View;
import android.view.Window;
import android.view.View.OnClickListener;
import android.widget.RelativeLayout;
```

```
import android.widget.TextView;
```

```
public class MainActivity extends Activity implements OnTouchListener {  
    private TextView tv;  
    private static final int t1 = 1;  
    private static final int finished = 2;  
    private static int counter=4;// Current second is 5th second  
    //private static Bundle b;  
    @Override  
    public void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        //this.b=savedInstanceState;  
        this.requestWindowFeature(Window.FEATURE_NO_TITLE);  
        setContentView(R.layout.activity_main);  
  
        final RelativeLayout rl = (RelativeLayout) findViewById(R.id.rl1);  
        tv = (TextView)findViewById(R.id.test);  
        rl.setOnTouchListener(this);  
        // Create an offset from the current time in which the alarm will go  
        // off.  
        Calendar cal = Calendar.getInstance();  
        cal.add(Calendar.SECOND, 5);  
        tv.setText("Alarm in 5 Seconds");  
        // Create a new PendingIntent and add it to the AlarmManager  
        Intent intent = new Intent(this, AlarmReceiverActivity.class);  
        //startActivity(intent);  
  
        PendingIntent pendingIntent = PendingIntent.getActivity(this, 12345, intent,  
        PendingIntent.FLAG_CANCEL_CURRENT);  
        //pending intent means gets an intent and waits to trigger ro start
```

```

        AlarmManager am = (AlarmManager)
getSystemService(Activity.ALARM_SERVICE);

        am.set(AlarmManager.RTC_WAKEUP, cal.getTimeInMillis(), pendingIntent);

        //AlarmManager.RTC_WAKEUP -- if an application is in closed state, at that
time also the activity is triggered.

        //RTC - real time clock

        startthread(getWindow().getDecorView().getRootView());
    }

    public void startthread(View v){
        tv.setText("Start Running");
        thread1.start();
    }

Thread thread1 = new Thread(new Runnable() {
    @Override
    public void run() {
        for (int i = 0; i < 5; i++)
        {
            try {
                Thread.sleep(1000);
            } catch (InterruptedException e) {
                e.printStackTrace();
            }
            if(counter>0)
                {handler.sendMessage(t1);}
            else {handler.sendMessage(finished);}
        }
    }
});

```

```

Handler handler = new Handler() {
    public void handleMessage(android.os.Message msg) {
        if(msg.what == t1) { tv.setText((counter--)+" Seconds to Alarm");}
        if(msg.what == finished) { tv.setText("Alarmed.");        }
                                }
                                };

public boolean onTouch(View v, MotionEvent event) {
    int action = event.getAction();
    switch(action){
        case MotionEvent.ACTION_DOWN:
            Calendar cal1 = Calendar.getInstance();
            cal1.add(Calendar.SECOND, 5);
            Intent intent1 = new Intent(this, AlarmReceiverActivity.class);
            PendingIntent pendingIntent1 = PendingIntent.getActivity(this, 12345,intent1,
PendingIntent.FLAG_CANCEL_CURRENT);

            AlarmManager am = (AlarmManager)
getSystemService(Activity.ALARM_SERVICE);

            am.set(AlarmManager.RTC_WAKEUP, cal1.getTimeInMillis(), pendingIntent1);
            Thread t1 = new Thread(thread1);
            counter = 4; // Current second is 5th second
            t1.start();

            break;
        }
    return true;
}

}

```