**Code for Activity\_main.xml:**

|  |  |
| --- | --- |
|  | <?xml version="1.0" encoding="utf-8"?>  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:orientation="vertical">  <TimePicker  android:id="@+id/timePicker"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_gravity="center" />  <ToggleButton  android:id="@+id/toggleButton"  android:layout\_width="wrap\_content"  android:layout\_height="wrap\_content"  android:layout\_gravity="center"  android:layout\_margin="20dp"  android:checked="false"  android:onClick="OnToggleClicked" />  </LinearLayout> |

### Code for AndroidManifest.xml:

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

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.exno11" >

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:supportsRtl="true"

android:theme="@style/AppTheme" >

<activity android:name=".MainActivity" >

<intent-filter>

<action android:name="android.intent.action.MAIN"/>

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

<receiver android:name=".AlarmReceiver" >

</receiver>

</application>

</manifest>

**Code for MainActivity.java:**

package com.example.exno11;

import android.app.AlarmManager;

import android.app.PendingIntent;

import android.content.Intent;

import android.os.Bundle;

import android.support.v7.app.AppCompatActivity;

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

{

TimePicker alarmTimePicker;

PendingIntent pendingIntent;

AlarmManager alarmManager;

@Override

protected void onCreate(Bundle savedInstanceState)

{

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

alarmTimePicker = (TimePicker) findViewById(R.id.timePicker);

alarmManager = (AlarmManager) getSystemService(ALARM\_SERVICE);

}

public void OnToggleClicked(View view)

{

long time;

if (((ToggleButton) view).isChecked())

{

Toast.makeText(MainActivity.this, "ALARM ON", Toast.LENGTH\_SHORT).show();

Calendar calendar = Calendar.getInstance();

calendar.set(Calendar.HOUR\_OF\_DAY, alarmTimePicker.getCurrentHour());

calendar.set(Calendar.MINUTE, alarmTimePicker.getCurrentMinute());

Intent intent = new Intent(this, AlarmReceiver.class);

pendingIntent = PendingIntent.getBroadcast(this, 0, intent, 0);

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,10000,

pendingIntent);

}

else

{

alarmManager.cancel(pendingIntent);

Toast.makeText(MainActivity.this,"ALARMOFF",Toast.LENGTH\_SHORT).

show();

}

}

}

|  |
| --- |
|  |

**Code for AlarmReceiver.java:**

package com.example.exno11;

import android.content.BroadcastReceiver;

import android.content.Context;

import android.content.Intent;

import android.media.Ringtone;

import android.media.RingtoneManager;

import android.net.Uri;

import android.widget.Toast;

public class AlarmReceiver extends BroadcastReceiver

{

public void onReceive(Context context, Intent intent)

{

Toast.makeText(context,"Alarm!Wakeup!Wakeup!",Toast.LENGTH\_LONG).

show();

Uri alarmUri;

alarmUri =RingtoneManager.getDefaultUri(RingtoneManager.TYPE\_ALARM);

if (alarmUri == null)

{

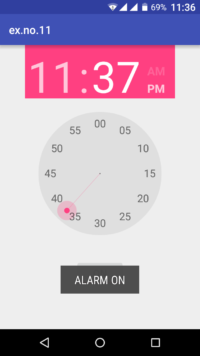
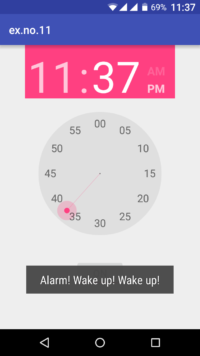
alarmUri=RingtoneManager.getDefaultUri(RingtoneManager.TYPE\_NOTIFION);

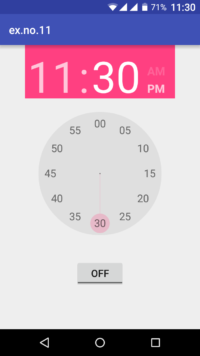
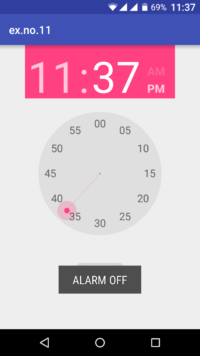
}

Ringtone ringtone = RingtoneManager.getRingtone(context, alarmUri);

ringtone.play();}

**Output:**

## 

## 

## 

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## 