**Assignment No: 09**

**Create an android app to show Notifications and Alarm manager**

#### **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="example.notifications.com.alarmmanager.MainActivity"**>**

**<Button**

        android:id="@+id/button"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:text="Start"

       android:layout\_alignParentBottom="true"

        android:layout\_centerHorizontal="true"

        android:layout\_marginBottom="103dp" **/>**

**<EditText**

       android:id="@+id/time"

       android:layout\_width="wrap\_content"

       android:layout\_height="wrap\_content"

       android:layout\_alignParentTop="true"

     android:layout\_centerHorizontal="true"

       android:layout\_marginTop="22dp"

       android:ems="10" **/>**

**</RelativeLayout>**

**MainActivity.java**

**package** example.notifications.com.alarmmanager;

**import** android.app.AlarmManager;

**import** android.app.PendingIntent;

**import** android.content.Intent;

**import** android.support.v7.app.AppCompatActivity;

**import** android.os.Bundle;

**import** android.view.View;

**import** android.widget.Button;

**import** android.widget.EditText;

**import** android.widget.Toast;

**public** **class** MainActivity **extends** AppCompatActivity {

    Button start;

    @Override

**protected** **void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        start= findViewById(R.id.button);

        start.setOnClickListener(**new** View.OnClickListener() {

            @Override

**public** **void** onClick(View view) {

                startAlert();

            }

        });

    }

**public** **void** startAlert(){

        EditText text = findViewById(R.id.time);

**int** i = Integer.parseInt(text.getText().toString());

        Intent intent = **new** Intent(**this**, MyBroadcastReceiver.**class**);

        PendingIntent pendingIntent = PendingIntent.getBroadcast(

**this**.getApplicationContext(), 234324243, intent, 0);

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

       alarmManager.set(AlarmManager.RTC\_WAKEUP, System.currentTimeMillis()

                + (i \* 1000), pendingIntent);

       Toast.makeText(**this**, "Alarm set in " + i + " seconds",Toast.LENGTH\_LONG).show();

    }

}

***MyBroadcastReceiver.java***

**package** example.notifications.com.alarmmanager;

**import** android.content.BroadcastReceiver;

**import** android.content.Context;

**import** android.content.Intent;

**import** android.media.MediaPlayer;

**import** android.widget.Toast;

**public** **class** MyBroadcastReceiver **extends** BroadcastReceiver {

    MediaPlayer mp;

    @Override

**public** **void** onReceive(Context context, Intent intent) {

        mp=MediaPlayer.create(context, R.raw.alarm);

        mp.start();

        Toast.makeText(context, "Alarm....", Toast.LENGTH\_LONG).show();

    }

}

**AndroidManifest.xml:**

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

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

    package="example.notifications.com.alarmmanager"**>**

**<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/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="MyBroadcastReceiver" **>**

**</receiver>**

**</application>**

**</manifest>**

**Output:**





