# Lab 13: Notification

MainActivity.java

package com.example.lab13;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.app.NotificationCompat;  
import androidx.core.app.NotificationManagerCompat;  
  
import android.app.NotificationChannel;  
import android.app.NotificationManager;  
import android.os.Build;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
  
public class MainActivity extends AppCompatActivity {  
  
 Button notifyBtn;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
  
 notifyBtn = findViewById(R.id.*notifyBtn*);  
  
 *// if the api version is greater than oreo then we have to create a notification channel* if (Build.VERSION.*SDK\_INT* >= Build.VERSION\_CODES.*O*) {  
 NotificationChannel  
 channel = new NotificationChannel("notifyChannel", "Demo Notification", NotificationManager.*IMPORTANCE\_DEFAULT*);  
 NotificationManager manager = getSystemService(NotificationManager.class);  
 manager.createNotificationChannel(channel);  
 }  
  
 notifyBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 *// notification code* NotificationCompat.Builder builder = new NotificationCompat.Builder(MainActivity.this, "notifyChannel");  
 builder.setContentTitle("Demo Notification Title");  
 builder.setContentText("This is a demo notification.");  
 builder.setSmallIcon(R.drawable.*messageicon*);  
 builder.setAutoCancel(true); *// swipe away the notification  
  
 // notify the user* NotificationManagerCompat manager = NotificationManagerCompat.*from*(MainActivity.this);  
 manager.notify(1, builder.build());  
 }  
 });  
 }  
 }

activity\_main.xml

*<?*xml version="1.0" encoding="utf-8"*?>*<androidx.constraintlayout.widget.ConstraintLayout 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">  
  
 <Button  
 android:id="@+id/notifyBtn"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/notify\_me"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
</androidx.constraintlayout.widget.ConstraintLayout>

OUTPUT

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| --- | --- |
| Graphical user interface, application, Teams  Description automatically generated | A screenshot of a phone  Description automatically generated with medium confidence |