

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

