Program 6a:

Activity\_main.xml

<?xml version="1.0" encoding="utf-8"?>  
<androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity">  
  
 <Button  
 android:id="@+id/buttonNotify"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/notify\_me"  
 tools:layout\_editor\_absoluteX="33dp"  
 tools:layout\_editor\_absoluteY="40dp"  
 tools:ignore="MissingConstraints" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

Main\_activity.java

package com.example.sixthapp;  
  
import android.app.Notification;  
import android.app.NotificationChannel;  
import android.app.NotificationManager;  
import android.app.PendingIntent;  
import android.app.TaskStackBuilder;  
import android.content.Context;  
import android.content.Intent;  
import android.os.Bundle;  
import android.widget.Button;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.core.app.NotificationCompat;  
  
@SuppressWarnings("ALL")  
public class MainActivity extends AppCompatActivity {  
 Button but;  
 Context context=MainActivity.this;  
 String CHANNEL\_ID="my\_channel\_01";  
 CharSequence name = "my\_channel";  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 but= findViewById(R.id.*buttonNotify*);  
 NotificationManager notificationManager = (NotificationManager) context.getSystemService(Context.*NOTIFICATION\_SERVICE*);  
  
 but.setOnClickListener(v -> {  
 NotificationChannel mChannel = new NotificationChannel(CHANNEL\_ID, name, NotificationManager.*IMPORTANCE\_HIGH*);  
 notificationManager.createNotificationChannel(mChannel);  
  
 Intent notificationIntent = new Intent(context, MainActivity.class);  
  
 TaskStackBuilder stackBuilder = TaskStackBuilder.*create*(context);  
 stackBuilder.addParentStack(MainActivity.class);  
 stackBuilder.addNextIntent(notificationIntent);  
  
 PendingIntent pendingIntent = stackBuilder.getPendingIntent(0, PendingIntent.*FLAG\_IMMUTABLE*);  
  
 NotificationCompat.Builder builder = new NotificationCompat.Builder(context,CHANNEL\_ID);  
  
 Notification notification = builder.setContentTitle("Notification Title")  
 .setContentText("Notification Text")  
 .setTicker("Test!")  
 .setSmallIcon(R.mipmap.*ic\_launcher*)  
 .setAutoCancel(true)  
 .setContentIntent(pendingIntent).build();  
  
 notificationManager.notify(0, notification);  
 });  
 }  
}