

Practical No. 5

Aim: Write an Android program to demonstrate the working of Notifications.

activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout android:layout_height="match_parent"
    android:layout_width="match_parent"
    xmlns:android="http://schemas.android.com/apk/res/android">

    <Button
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/btnClick"
        android:text="Click Me"
        android:layout_centerInParent="true"
        android:textSize="25dp"/>

</RelativeLayout>
```

activity_main2.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout android:layout_height="match_parent"
    android:layout_width="match_parent"
    xmlns:android="http://schemas.android.com/apk/res/android" >

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:id="@+id/tv"
        android:text="Notification Page"
        android:textSize="25dp"
        android:layout_centerInParent="true"/>

</RelativeLayout>
```

MainActivity.kt

```
package com.example.myapplication
```

```
import android.annotation.SuppressLint
import android.app.Notification
import android.app.NotificationChannel
import android.app.NotificationManager
import android.app.PendingIntent
import android.content.Context
import android.content.Intent
import android.graphics.Color
```

```

import android.os.Build
import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle
import android.widget.Button

class MainActivity : AppCompatActivity() {

    lateinit var btnClick: Button
    lateinit var notificationManager: NotificationManager
    lateinit var notificationChannel: NotificationChannel
    lateinit var builder: Notification.Builder
    private val channelId = "12345"
    private val description = "Test Notification"

    @SuppressWarnings("MissingInflatedId")
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        btnClick = findViewById(R.id.btnClick)
        notificationManager = getSystemService(Context.NOTIFICATION_SERVICE) as
NotificationManager

        btnClick.setOnClickListener {
            val intent = Intent(this, MainActivity2::class.java)
            val pendingIntent = PendingIntent.getActivity(this, 0, intent,
PendingIntent.FLAG_UPDATE_CURRENT)

            if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
                notificationChannel = NotificationChannel(channelId, description,
NotificationManager.IMPORTANCE_HIGH)
                notificationChannel.lightColor = Color.BLUE
                notificationChannel.enableVibration(true)
                notificationManager.createNotificationChannel(notificationChannel)
                builder = Notification.Builder(this, channelId)
                    .setContentTitle("NOTIFICATION USING KOTLIN")
                    .setContentText("Test Notification")
                    .setSmallIcon(R.drawable.ic_launcher_background)
                    .setContentIntent(pendingIntent)
            }
            notificationManager.notify(1234, builder.build())
        }
    }
}

```

Output

