

Practical No 8

Create an android application to generate notification

AndroidManifest.xml

```
<uses-permission android:name="android.permission.POST_NOTIFICATIONS" />
```

MainActivity.java

```
package com.example.myapplication;
import android.os.Bundle;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
import androidx.core.app.NotificationCompat;
import androidx.core.app.NotificationManagerCompat;
import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.os.Build;
import android.view.View;
import android.widget.Button;
import java.nio.channels.Channel;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
            Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
            return insets;
        });
        if(Build.VERSION.SDK_INT >= Build.VERSION_CODES.O)
        {
            String description="This is description";
            int importance= NotificationManager.IMPORTANCE_DEFAULT;
            NotificationChannel notificationChannel=new NotificationChannel("My Notification","Simple
```

```
Notification",importance);
    notificationChannel.setDescription(description);
    NotificationManager
notificationManager=(NotificationManager)getSystemService(NOTIFICATION_SERVICE);
    notificationManager.createNotificationChannel(notificationChannel);
}
    NotificationCompat.Builder builder=new NotificationCompat.Builder(this,"My Notification");
    builder.setContentTitle("Notification from IT");
    builder.setSmallIcon(R.drawable.ic_launcher_background);
    builder.setAutoCancel(true);
    builder.setContentText("Small Notification");
    NotificationManagerCompat manager = NotificationManagerCompat.from(this);
    manager.notify(999,builder.build());
}

}
```