

NOTIFICATION

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ROLL NO:

Creating and Managing Notifications

Introduction:

Notifications in Android are used to inform users about events in the background. These notifications appear in the system tray and can include text, images, buttons, and more. Proper handling of notifications enhances user engagement and app usability.

Activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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:layout_centerInParent="true"
        android:textAllCaps="false"
        android:text="Show Notification"
        />
```

MainActivity.java:

```
package com.example.notifications;

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;

public class MainActivity extends AppCompatActivity {

    private static final String CHANNEL_ID="SIMPLE NOTIFICATION ID";
    private static final String CHANNEL_NAME="SIMPLE_NOTIFICATION CH NAME";
    private static final String CHANNEL_DESC="SIMPLE NOTIFICATION DESC";

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        if(Build.VERSION.SDK_INT>=Build.VERSION_CODES.BASE)
        {
            NotificationChannel channel=new NotificationChannel(
                CHANNEL_ID,CHANNEL_NAME, NotificationManager.IMPORTANCE_DEFAULT
            );
            channel.setDescription(CHANNEL_DESC);
            NotificationManager manager=getSystemService(NotificationManager.class);
            manager.createNotificationChannel(channel);
        }
        findViewById(R.id.notifyBtn).setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                displayNotification();
            }
        });
    }

    private void displayNotification() {
        NotificationCompat.Builder mBuilder=new
        NotificationCompat.Builder(this,CHANNEL_ID).setSmallIcon(R.drawable.download).setContentT
        itle("My Notification").setContentText("First
        Notification").setPriority(NotificationCompat.PRIORITY_DEFAULT);
        NotificationManagerCompat mNotificationMgr=NotificationManagerCompat.from(this);
        mNotificationMgr.notify(1,mBuilder.build());
    }
}

```

Output:

