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SECTION:5CSE-4

NOTIFICATION APPLICATION

1.activity_main.xml:

```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"
    android:background="#FFEB3B"
    tools:context=".MainActivity">

    <TextView
        android:layout_width="193dp"
        android:layout_height="47dp"
        android:text="NOTIFICATION"
        android:textSize="24sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.458"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.141" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Button"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.499" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

2.MainActivity.java:

```java
package com.example.notification;

import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.NotificationChannelCompat;
import androidx.core.app.NotificationCompat;
import androidx.core.app.NotificationManagerCompat;

import android.annotation.SuppressLint;
import android.app.NotificationChannel;
import android.app.NotificationManager;
import android.os.Build;
import android.os.Bundle;
import android.view.View;
```

```java
import android.widget.Button;

public class MainActivity extends AppCompatActivity {

    //1.NOTIFICATION CHANNEL(OREO),2.BUILDER,3.MANAGER
    //ID,NAME,DESCRIPTION
    private static final String CHANNEL_ID="SoCSE";
    private static final String CHANNEL_NAME="SoCSE-CSE";
    private static final String CHANNEL_DESC="SoCSE-B.Tech-CSE";
Button bt;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        //through channel only Oero work so we hv to create object
        if (Build.VERSION.SDK_INT >=Build.VERSION_CODES.O){
            //o not zero
            NotificationChannel channel=new
NotificationChannel(CHANNEL_ID,CHANNEL_NAME,
NotificationManager.IMPORTANCE_DEFAULT);
            channel.setDescription(CHANNEL_DESC);
            NotificationManager
manager=getSystemService(NotificationManager.class);
            manager.createNotificationChannel(channel);
        }
        bt=findViewById(R.id.button);
         bt.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {

                displaynotification();
            }
        });
    }
    @SuppressLint("MissingPermission")
    private void displaynotification(){
        NotificationCompat.Builder nBuilder=new
NotificationCompat.Builder(this,CHANNEL_ID)
                .setSmallIcon(R.drawable.notification)//ICON
                .setContentTitle("My Notification")
                .setContentText("My notification message ")
                .setPriority(0);
        NotificationManagerCompat
notificationManagerCompat=NotificationManagerCompat.from(this);
        notificationManagerCompat.notify(1,nBuilder.build());
    }
}
```

3.output: