

### Vishwakarma Institute of Technology

Department of Engineering Sciences and Humanities (DESH)

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**Division:** O

Batch: 2

PRN:12310466

Roll Number: 42

**Subject: Mobile Application Development** 

### **Assignment 6**

Problem Statement:Implement an application that creates an alert upon receiving a message.(Notification)

```
Activity_main.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"
 tools:context=".MainActivity">
 <TextView
    android:id="@+id/textView"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:text="Hello World!"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
 <Button
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginEnd="3dp"
    android:layout marginBottom="40dp"
    android:text="Button"
```



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```
app:layout_constraintBottom_toTopOf="@+id/textView"
    app:layout_constraintEnd_toEndOf="@+id/textView" />
</androidx.constraintlayout.widget.ConstraintLayout>
Main_Activity.java:
package com.example.mad_notification;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.app.NotificationCompat;
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 = "ch1";
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    findViewById(R.id.button).setOnClickListener(new View.OnClickListener() {
      @Override
      public void onClick(View v) {
        createNotification();
        sendNotification();
      }
   });
  public void createNotification() {
    if (Build.VERSION.SDK INT >= Build.VERSION CODES.O) {
      NotificationChannel channel = new NotificationChannel(CHANNEL_ID, "Notification",
NotificationManager.IMPORTANCE_HIGH);
      channel.setDescription("Hello world");
      NotificationManager manager = getSystemService(NotificationManager.class);
      manager.createNotificationChannel(channel);
   }
  }
```



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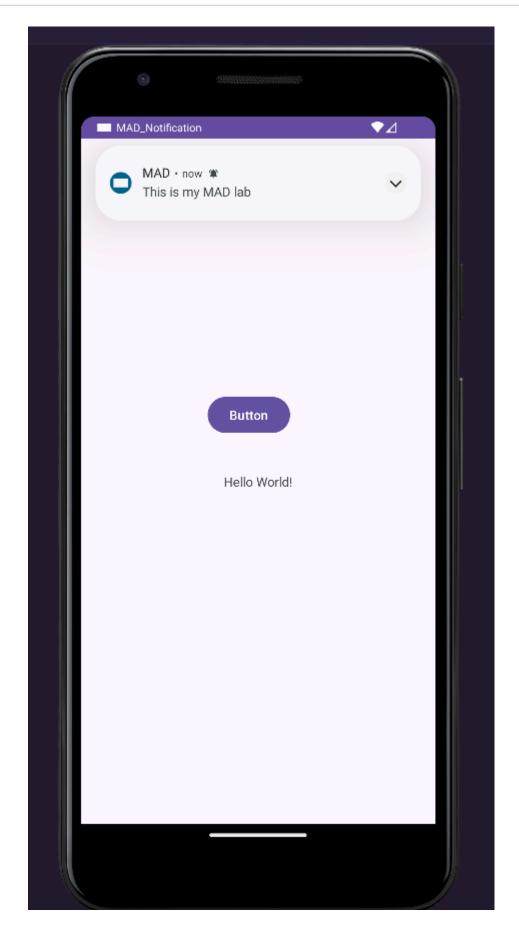
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```
public void sendNotification() {
    NotificationCompat.Builder builder = new NotificationCompat.Builder(this, CHANNEL_ID);
    builder.setContentTitle("MAD");
    builder.setContentText("This is my MAD lab");
    builder.setAutoCancel(true);
    builder.setSmallIcon(R.drawable.img);
    NotificationManager manager = (NotificationManager)
getSystemService(NOTIFICATION_SERVICE);
    manager.notify(0, builder.build());
 }
}
Manifest: <?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  xmlns:tools="http://schemas.android.com/tools">
<uses-permission android:name="android.permission.POST NOTIFICATIONS"/>
  <application
    android:allowBackup="true"
    android:dataExtractionRules="@xml/data_extraction_rules"
    android:fullBackupContent="@xml/backup_rules"
    android:icon="@mipmap/ic_launcher"
    android:label="@string/app_name"
    android:roundIcon="@mipmap/ic_launcher_round"
    android:supportsRtl="true"
    android:theme="@style/Theme.MAD_Notification"
    tools:targetApi="31">
    <activity
      android:name=".MainActivity"
      android:exported="true">
      <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.LAUNCHER" />
      </intent-filter>
    </activity>
  </application>
</manifest>
```

**ScreenShot of app:** 



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