



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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Experiment3.2

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Section/Group: 902 B WM

Semester: 5th

Subject Name: WMS LAB

Subject Code: 20CSP-338

Aim: Develop a Mobile application to create a notification in Android

Objective: To draw 2D graphics and Animation in android application.

Software/Hardware Requirements: Android Studio

Tools to be used: Android Studio

Introduction:

Android Notification

Android Notification provides short, timely information about the action happened in the application, even it is not running. The notification displays the icon, title and some amount of the content text.

Set Android Notification Properties

The properties of Android notification are set using NotificationCompat.Builder object. Some of the notification properties are mention below:

setSmallIcon(): It sets the icon of notification.

setContentTitle(): It is used to set the title of notification.

setContentText(): It is used to set the text message.

setAutoCancel(): It sets the cancelable property of notification.

setPriority(): It sets the priority of notification.

Steps/Method/Coding:

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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="example.javatpoint.com.androidnotification.MainActivity">

<TextView
```



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```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:text="ANDROID NOTIFICATION"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintLeft_toLeftOf="parent"
app:layout_constraintRight_toRightOf="parent"
app:layout_constraintTop_toTopOf="parent"
app:layout_constraintVertical_bias="0.091"
android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium"/>
```

<Button

```
android:layout_width="wrap_content"
android:layout_height="wrap_content"
android:id="@+id/button"
android:layout_marginBottom="112dp"
android:layout_marginEnd="8dp"
android:layout_marginStart="8dp"
android:text="Notify"
app:layout_constraintBottom_toBottomOf="parent"
app:layout_constraintEnd_toEndOf="parent"
app:layout_constraintStart_toStartOf="parent" />
```

</android.support.constraint.ConstraintLayout>

Create an activity named as `activity_notification_view.xml` and add the following code. This activity will be launched on clicking the notification. `TextView` is used to display the notification message.

`activity_notification_view.xml`

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.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="example.javatpoint.com.androidnotification.NotificationView">
```

<TextView

```
android:id="@+id/textView2"
```



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```
android:layout_width="fill_parent"  
android:layout_height="wrap_content"  
android:gravity="center"  
android:text="your detail of notification..."  
android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium" />
```

```
<TextView
```

```
  android:id="@+id/textView"  
  android:layout_width="wrap_content"  
  android:layout_height="wrap_content"  
  android:layout_marginBottom="8dp"  
  android:layout_marginEnd="8dp"  
  android:layout_marginStart="8dp"  
  android:layout_marginTop="8dp"  
  app:layout_constraintBottom_toBottomOf="parent"  
  app:layout_constraintEnd_toEndOf="parent"  
  app:layout_constraintHorizontal_bias="0.096"  
  app:layout_constraintStart_toStartOf="parent"  
  app:layout_constraintTop_toBottomOf="@+id/textView2"  
  app:layout_constraintVertical_bias="0.206"  
  android:textAppearance="@style/Base.TextAppearance.AppCompat.Medium"/>
```

```
</android.support.constraint.ConstraintLayout>
```

Output screenshot:

Learning Outcomes:

A notification is a message you can display to the user outside of your application's normal UI. When you tell the system to issue a notification, it first appears as an icon in the notification area