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Subject/Course:	Advanced Mobile Programming		
Topic	Notification		

Notifications

Design a mobile application to demonstrate Notification

[Tuesday 8:46 AM] Sanjeev Gupta
package com.example.sanprac8

```
import android.app.NotificationChannel
import android.app.NotificationManager
import android.content.Context
import android.os.Build
import android.support.v7.app.AppCompatActivity
import android.os.Bundle
import android.support.v4.app.NotificationCompat
import android.support.v4.app.NotificationManagerCompat
import android.widget.Button

class MainActivity : AppCompatActivity() {

    private val channelId = "sample_channel"
    private val notificationId = 101

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        val button = findViewById<Button>(R.id.notifyButton)
        button.setOnClickListener {
            createNotificationChannel()
            sendNotification()
        }
    }
}

    private fun createNotificationChannel() {
        if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
            val name = "Sample Channel"
            val descriptionText = "This is a sample notification channel."
            val importance = NotificationManager.IMPORTANCE_DEFAULT
            val channel = NotificationChannel(channelId, name, importance).apply {
                description = descriptionText
            }
            val notificationManager: NotificationManager =
                getSystemService(Context.NOTIFICATION_SERVICE) as NotificationManager
            notificationManager.createNotificationChannel(channel)
```

```
      }
   }

   private fun sendNotification() {
      val builder = NotificationCompat.Builder(this, channelId)
         .setSmallIcon(R.drawable.ic_launcher_background)
         .setContentTitle("Sample Notification")
         .setContentText("This is a sample notification.")
         .setPriority(NotificationCompat.PRIORITY_DEFAULT)

      with(NotificationManagerCompat.from(this)) {
         notify(notificationId, builder.build())
      }
   }
}
```

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```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=".MainActivity">

   <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" />

   <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/notifyButton"
         android:layout_width="wrap_content"
         android:layout_height="wrap_content"
         android:layout_centerInParent="true"
         android:text="Show Notification" />
   </RelativeLayout>

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