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**Batch & Roll:** A3-63

**Experiment No.9**

**Title:** To develop an application that makes use of Notification Manager.

MainActivity.java

package com.example.expt9notification;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.app.NotificationCompat;

import android.app.NotificationChannel;

import android.app.NotificationManager;

import android.app.PendingIntent;

import android.content.Context;

import android.content.Intent;

import android.graphics.Color;

import android.os.Build;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity {

Button b;

NotificationManager nm;

String CHANNEL\_ID = "my\_channel";

EditText name,age;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

b=findViewById(R.id.buttonForNotification);

nm=(NotificationManager) getSystemService(Context.NOTIFICATION\_SERVICE);

name=findViewById(R.id.nameHere);

age=findViewById(R.id.ageHere);

b.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

if(Build.VERSION.SDK\_INT >= Build.VERSION\_CODES.O){

CharSequence name = "my\_channel";

String description = "first\_channel";

int importance = NotificationManager.IMPORTANCE\_HIGH;

NotificationChannel c = new NotificationChannel(CHANNEL\_ID,name,importance);

c.setDescription(description);

c.enableLights(true);

c.setLightColor(Color.RED);

c.enableVibration(true);

c.setVibrationPattern(new long[]{100,200,300,400,500,400,300,200,100});

c.setShowBadge(false);

nm.createNotificationChannel(c);

}

NotificationCompat.Builder b = new NotificationCompat.Builder(MainActivity.this,CHANNEL\_ID);

b.setSmallIcon(R.drawable.notification\_icon);

b.setContentTitle("Report Generated!");

b.setContentText("Click Here to get your details.");

Intent ni = new Intent(MainActivity.this,ReportActivity.class);

String nameOfUser = name.getText().toString();

String ageOfUser = age.getText().toString();

ni.putExtra("name",nameOfUser);

ni.putExtra("age",ageOfUser);

PendingIntent p = PendingIntent.getActivity(MainActivity.this,0,ni,PendingIntent.FLAG\_UPDATE\_CURRENT);

b.setContentIntent(p);

nm.notify(0,b.build());

}

});

}

}

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">

<Button

android:id="@+id/buttonForNotification"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Generate Data"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.55" />

<EditText

android:id="@+id/nameHere"

android:layout\_width="150dp"

android:layout\_height="wrap\_content"

android:layout\_marginTop="112dp"

app:layout\_constraintBottom\_toTopOf="@+id/ageHere"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.409"

app:layout\_constraintStart\_toEndOf="@+id/name"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.555" />

<TextView

android:id="@+id/age"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="268dp"

android:fontFamily="sans-serif-black"

android:text="Age"

android:textSize="20dp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.24"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

<EditText

android:id="@+id/ageHere"

android:layout\_width="150dp"

android:layout\_height="wrap\_content"

android:layout\_marginTop="256dp"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.409"

app:layout\_constraintStart\_toEndOf="@+id/name"

app:layout\_constraintTop\_toTopOf="parent" />

<TextView

android:id="@+id/name"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="128dp"

android:fontFamily="sans-serif-black"

android:text="Name"

android:textSize="20dp"

app:layout\_constraintBottom\_toTopOf="@+id/age"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.24"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent"

app:layout\_constraintVertical\_bias="0.424" />

</androidx.constraintlayout.widget.ConstraintLayout>

ReportActivity.java

package com.example.expt9notification;

import androidx.appcompat.app.AppCompatActivity;

import android.annotation.SuppressLint;

import android.content.Intent;

import android.os.Bundle;

import android.widget.TextView;

public class ReportActivity extends AppCompatActivity {

TextView t1,t2;

// @SuppressLint("MissingInflatedId")

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_report);

t1= findViewById(R.id.headingHere);

t2 = findViewById(R.id.userData);

Intent i = getIntent();

String nameOfUser = i.getStringExtra("name");

String ageOfUser = i.getStringExtra("age");

String welcome = "Report Generated for "+nameOfUser+" successfully.";

String reportData = "Name: "+nameOfUser+"\nAge: "+ageOfUser;

t1.setText(welcome);

t2.setText(reportData);

}

}

Activity\_report.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=".ReportActivity">

<TextView

android:id="@+id/userData"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="user data"

app:layout\_constraintBottom\_toBottomOf="parent"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintHorizontal\_bias="0.498"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toBottomOf="@+id/headingHere"

app:layout\_constraintVertical\_bias="0.224" />

<TextView

android:id="@+id/headingHere"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_marginTop="136dp"

android:text="heading here"

app:layout\_constraintEnd\_toEndOf="parent"

app:layout\_constraintStart\_toStartOf="parent"

app:layout\_constraintTop\_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

Output:-

 

