**Android App Development**

**Extra Programs:**

**1.Design an android application that creates an alert notification upon receiving message.**

**MainActivity.java:**

package com.example.exno10;

import android.app.Notification;

import android.app.NotificationManager;

import android.app.PendingIntent;

import android.content.Intent;

import android.os.Bundle;

import android.support.v7.app.AppCompatActivity;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

public class MainActivity extends AppCompatActivity

{

    Button notify;

    EditText e;

    @Override

    protected void onCreate(Bundle savedInstanceState)

    {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        notify= (Button) findViewById(R.id.button);

        e= (EditText) findViewById(R.id.editText);

        notify.setOnClickListener(new View.OnClickListener()

        {

            @Override

            public void onClick(View v)

            {

                Intent intent = new Intent(MainActivity.this, SecondActivity.class);

                PendingIntent pending = PendingIntent.getActivity(MainActivity.this, 0, intent, 0);

                Notification noti = new Notification.Builder(MainActivity.this).setContentTitle("New Message").setContentText(e.getText().toString()).setSmallIcon(R.mipmap.ic\_launcher).setContentIntent(pending).build();

                NotificationManager manager = (NotificationManager) getSystemService(NOTIFICATION\_SERVICE);

                noti.flags |= Notification.FLAG\_AUTO\_CANCEL;

                manager.notify(0, noti);

            }

        });

    }

}

**activity\_main.xml:**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

    android:layout\_width="match\_parent"

    android:layout\_height="match\_parent"

    android:layout\_margin="10dp"

    android:orientation="vertical">

    <TextView

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:text="Message"

        android:textSize="30sp" />

    <EditText

        android:id="@+id/editText"

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:singleLine="true"

        android:textSize="30sp" />

    <Button

        android:id="@+id/button"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_margin="30dp"

        android:layout\_gravity="center"

        android:text="Notify"

        android:textSize="30sp"/>

</LinearLayout>

Output:

