**Experiment - 9**

**Name : Ansari Ushair Roll no : 14DCO53**

**Class : BE.CO Batch : 03**

**Aim : Implement an application that creates an alert upon receiving a message.**

**#Theory**

**Program:**

**MainActivity.java**

package com.example.exp9;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.app.NotificationCompat;

import androidx.core.app.NotificationManagerCompat;

import android.app.Notification;

import android.app.NotificationChannel;

import android.app.NotificationManager;

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 bn;

EditText edt;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

bn=findViewById(R.id.button);

edt=findViewById(R.id.editText);

bn.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

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

NotificationChannel channel =

new NotificationChannel("MyNotifications","MyNotifications", NotificationManager.IMPORTANCE\_DEFAULT);

NotificationManager manager = getSystemService(NotificationManager.class);

manager.createNotificationChannel(channel);

}

NotificationCompat.Builder builder = new NotificationCompat.Builder(MainActivity.this, "MyNotifications");

builder.setSmallIcon(R.drawable.ic\_sms\_noti);

builder.setContentTitle("My Notification");

builder.setContentText(edt.getText());

builder.setAutoCancel(true);

NotificationManagerCompat notificationManagerCompat = NotificationManagerCompat.from(MainActivity.this);

notificationManagerCompat.notify(999, builder.build());

}

});

}

}

**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">

<EditText

android:id="@+id/editText"

android:hint="Message"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:singleLine="true"

android:textSize="20sp" />

<Button

android:id="@+id/button"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:layout\_margin="30dp"

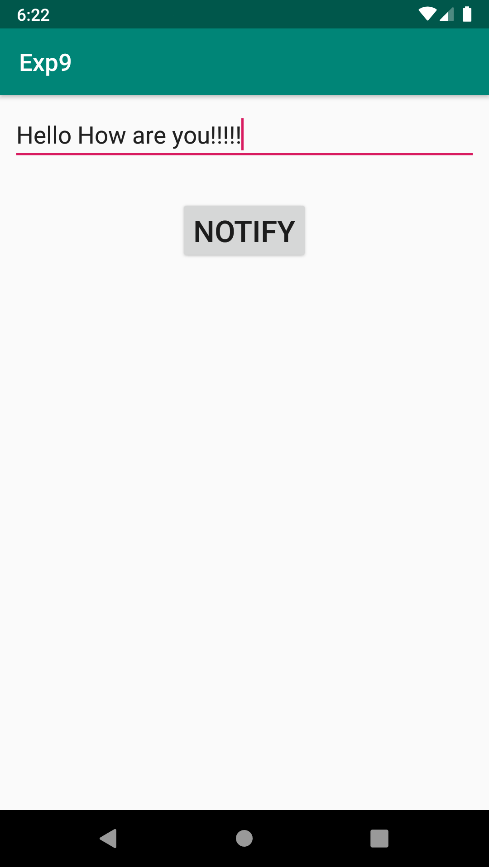
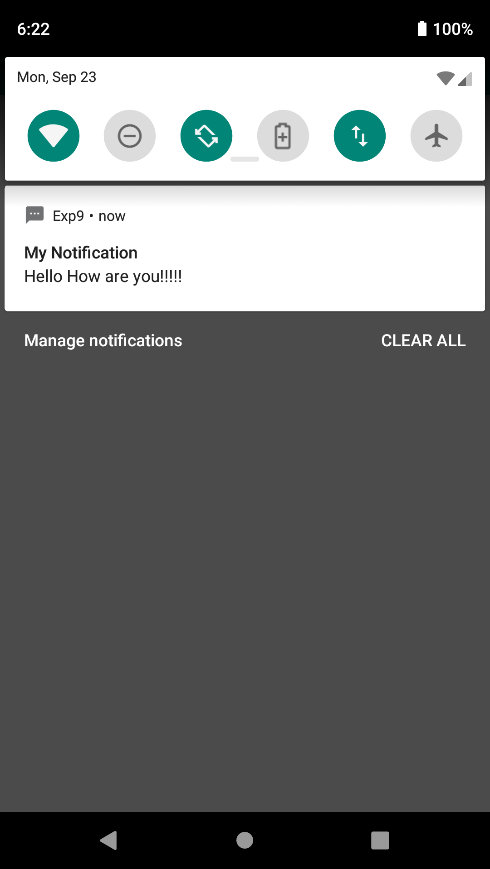
android:layout\_gravity="center"

android:text="Notify"

android:textSize="25dp"/>

</LinearLayout>

**Output:**

****