

Experiment - 9

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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:

