<**uses-permission android:name="android.permission.READ\_CONTACTS"**/>

**package** example.com.app6i;  
  
**import** android.app.Activity;  
**import** android.app.NotificationManager;  
**import** android.app.PendingIntent;  
**import** android.content.Context;  
**import** android.content.Intent;  
**import** android.database.Cursor;  
**import** android.net.Uri;  
**import** android.provider.ContactsContract;  
**import** android.support.v4.app.NotificationCompat;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.Toast;  
  
**public class** MainActivity **extends** AppCompatActivity **implements** View.OnClickListener{  
  
 Button **notification**;  
 Button **contact**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **notification** = (Button)findViewById(R.id.***notification***);  
 **contact** = (Button)findViewById(R.id.***contact***);  
 **notification**.setOnClickListener(MainActivity.**this**);  
 **contact**.setOnClickListener(MainActivity.**this**);  
 }  
  
 @Override  
 **public void** onClick(View v) {  
 **switch** (v.getId())  
 {  
 **case** R.id.***notification***:  
 addNotification();  
 **break**;  
 **case** R.id.***contact***:  
 Intent in = **new** Intent(Intent.***ACTION\_PICK***, ContactsContract.Contacts.***CONTENT\_URI***);  
 startActivityForResult(in, 1);  
 }  
 }  
  
 **private void** addNotification() {  
 NotificationCompat.Builder builder = **new** NotificationCompat.Builder(**this**)  
 .setSmallIcon(R.mipmap.***ic\_launcher\_round*** )  
 .setContentTitle(**"A new notification"**)  
 .setContentText(**"A new message"**);  
  
 Intent notificationIntent = **new** Intent(**this**, MainActivity.**class**);  
 PendingIntent contentIntent = PendingIntent.*getActivity*(**this**, 0, notificationIntent, PendingIntent.***FLAG\_UPDATE\_CURRENT***);  
 builder.setContentIntent(contentIntent);  
  
 NotificationManager manager = (NotificationManager) getSystemService(Context.***NOTIFICATION\_SERVICE***);  
 manager.notify(0, builder.build());  
 }  
  
 @Override **public void** onActivityResult(**int** reqCode, **int** resultCode, Intent data)  
 {  
 **super**.onActivityResult(reqCode, resultCode, data);  
 **switch**( reqCode)  
 {  
 **case** (1):  
 **if** (resultCode == Activity.***RESULT\_OK***)  
 {  
 Uri contactData = data.getData();  
 Cursor c = managedQuery(contactData, **null**, **null**, **null**, **null**);  
 **if** (c.moveToFirst())  
 {  
 String id = c.getString(c.getColumnIndexOrThrow(ContactsContract.Contacts.***\_ID***));  
 String hasPhone =c.getString(c.getColumnIndex(ContactsContract.Contacts.***HAS\_PHONE\_NUMBER***));  
  
 **if** (hasPhone.equalsIgnoreCase(**"1"**))  
 {  
 Cursor phones = getContentResolver().query(ContactsContract.CommonDataKinds.Phone.***CONTENT\_URI***,**null**,ContactsContract.CommonDataKinds.Phone.***CONTACT\_ID*** +**" = "**+ id,**null**, **null**);  
 phones.moveToFirst();  
 String cNumber = phones.getString(phones.getColumnIndex(ContactsContract.CommonDataKinds.Phone.***NUMBER***));  
 Toast.*makeText*(getApplicationContext(), cNumber, Toast.***LENGTH\_SHORT***).show();  
 *//setCn(cNumber);* }  
 }  
 }  
 }  
 }  
}