Contact

activity\_main.xml :

Méthode1 :

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout 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"**>  
  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/tv\_contact"  
 android:textColor="@color/colorAccent"  
 android:textSize="18sp"  
 android:textStyle="bold|italic"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintLeft\_toLeftOf="parent"  
 app:layout\_constraintRight\_toRightOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent"** />  
  
 <**LinearLayout  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_below="@+id/textView"  
 android:layout\_marginTop="14dp"  
 android:orientation="horizontal"  
 android:id="@+id/linearLayout"**>  
  
 <**TextView  
 android:id="@+id/textView2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="@string/tv\_nom"** />  
  
 <**EditText  
 android:id="@+id/edNom"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:ems="10"  
 android:inputType="textPersonName"** />  
 </**LinearLayout**>  
  
 <**LinearLayout  
 android:id="@+id/linearLayout2"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_below="@+id/linearLayout"  
 android:layout\_marginTop="35dp"  
 android:orientation="horizontal"**>  
  
 <**TextView  
 android:id="@+id/textView3"  
 android:layout\_width="132dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:text="@string/tv\_phone"** />  
  
 <**EditText  
 android:id="@+id/edNum"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:ems="10"  
 android:inputType="phone"** />  
 </**LinearLayout**>  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/linearLayout2"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="87dp"  
 android:text="Ajouter"  
 android:onClick="ajouter"**/>  
  
</**RelativeLayout**>

Méthode2 :

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"**>  
  
 <**TextView  
 android:id="@+id/tv1"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentStart="true"  
 android:layout\_alignParentTop="true"  
 android:layout\_marginStart="27dp"  
 android:layout\_marginTop="42dp"  
 android:text="@string/tv\_add\_article"** />  
  
 <**EditText  
 android:id="@+id/edNom"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignStart="@+id/tv1"  
 android:layout\_below="@+id/textView"  
 android:layout\_marginTop="31dp"  
 android:ems="10"  
 android:inputType="textPersonName"** />  
  
 <**TextView  
 android:id="@+id/tv2"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignStart="@+id/edNom"  
 android:layout\_below="@+id/edNom"  
 android:layout\_marginTop="50dp"  
 android:text="@string/tv\_num"  
 android:textColor="@color/colorAccent"  
 android:textSize="14sp"** />  
  
 <**EditText  
 android:id="@+id/edNum"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignStart="@+id/tv2"  
 android:layout\_below="@+id/tv2"  
 android:layout\_marginTop="37dp"  
 android:ems="10"  
 android:inputType="phone"** />  
  
 <**TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignStart="@+id/edNom"  
 android:layout\_below="@+id/tv1"  
 android:layout\_marginTop="17dp"  
 android:text="@string/tv\_nom"  
 android:textColor="@color/colorAccent"** />  
  
 <**Button  
 android:id="@+id/button"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentBottom="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_below="@+id/editText3"  
 android:layout\_alignEnd="@+id/editText3"  
 android:layout\_marginBottom="87dp"  
 android:onClick="ajouterContact"  
 android:text="Button"** />  
  
</**RelativeLayout**>

activity\_call.xml :

Méthode1 :

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
  
 <**TextView  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:id="@+id/tvResult"** />  
  
 <**Button  
 android:id="@+id/btnCall"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="210dp"** />  
  
</**RelativeLayout**>

Méthode2 :

*<?***xml version="1.0" encoding="utf-8"***?>*<**RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"**>  
  
 <**TextView  
 android:id="@+id/tvResult"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="56dp"** />  
  
 <**Button  
 android:id="@+id/btnCall"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/tvResult"  
 android:layout\_centerHorizontal="true"  
 android:layout\_marginTop="109dp"  
 android:text="Button"** />  
  
</**RelativeLayout**>

strings.xml :

Méthode1 :

<**resources**>  
 <**string name="app\_name"**>ContactLFI3G2</**string**>  
 <**string name="tv\_contact"**>Ajouter contact</**string**>  
 <**string name="tv\_nom"**>Nom :</**string**>  
 <**string name="tv\_phone"**>Numéro :</**string**>  
 <**string name="title\_activity\_tasnim"**>Tasnim</**string**>  
</**resources**>

Méthode2 :

<**resources**>  
 <**string name="app\_name"**>ContactLFI3G1</**string**>  
 <**string name="tv\_add\_article"**>Ajouter nouveau contact :</**string**>  
 <**string name="tv\_nom"**>Nom :</**string**>  
 <**string name="tv\_num"**>Numéro :</**string**>  
</**resources**>

MainActivity.java :

Méthode1 :

**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.content.Intent;  
**import** android.view.View;  
**import** android.widget.EditText;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 EditText **nom**, **numero**;  
 String **ch\_nom**, **ch\_num**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **nom** = findViewById(R.id.***edNom***);  
 **numero** = findViewById(R.id.***edNum***);  
  
 **ch\_nom** = **nom**.getText().toString();  
 **ch\_num** = **numero**.getText().toString();  
 }  
  
 **public void** ajouter(View view) {  
 *//1: création de l'intent* Intent myIntent = **new** Intent(**this**, Call.**class**);  
 *//2: charger l'intetn avec les onformations à envoyer* myIntent.putExtra(**"cle\_nom"**, **ch\_nom**);  
 myIntent.putExtra(**"cle\_num"**, **ch\_num**);  
 *//3: démarrer l'intent* startActivity(myIntent);  
 }  
}

Méthode2 :

**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.content.Intent;  
**import** android.view.View;  
**import** android.widget.EditText;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 EditText **numero**, **nom**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **numero** = findViewById(R.id.***edNum***);  
 **nom** = findViewById(R.id.***edNom***);  
 }  
  
 **public void** ajouterContact(View view) {  
 *//méthode qui permettra l'insertion dans la bd et  
 // la redirection vers l'activité "Call.java"* String \_numero = **numero**.getText().toString();  
 String \_nom = **nom**.getText().toString();

*//1: redirection vers call* Intent myIntent = **new** Intent(getApplicationContext(), Call.**class**);  
 *//2:remplir l'intent avec les informations à envoyer* myIntent.putExtra(**"cle\_nom"**, \_nom);  
 myIntent.putExtra(**"cle\_num"**, \_numero);  
 *//3:démarrer l'intent* startActivity(myIntent);  
 }  
}

Contact.java :

**public class** Contact {  
  
 **private int id**;  
 **private** String **nom**, **num**;  
  
 **public** Contact() {

}  
  
 **public** Contact(String nom, String num) {  
 **this**.**nom** = nom;  
 **this**.**num** = num;  
 }  
  
 **public int** getId() {  
 **return id**;  
 }  
  
 **public void** setId(**int** id) {  
 **this**.**id** = id;  
 }  
  
 **public** String getNom() {  
 **return nom**;  
 }  
  
 **public void** setNom(String nom) {  
 **this**.**nom** = nom;  
 }  
  
 **public** String getNum() {  
 **return num**;  
 }  
  
 **public void** setNum(String num) {  
 **this**.**num** = num;  
 }  
}

Call.java :

Méthode1 :

**import** android.app.Activity;  
**import** android.content.Intent;  
**import** android.net.Uri;  
**import** android.os.Bundle;  
**import** android.support.annotation.Nullable;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.TextView;  
  
**public class** Call **extends** Activity {  
  
 TextView **result**;  
 Button **call**;  
  
 @Override  
 **protected void** onCreate(@Nullable Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
  
 setContentView(R.layout.***activity\_call***);  
  
 **result** = findViewById(R.id.***tvResult***);  
 **call** = findViewById(R.id.***btnCall***);

*//1: récupérer l'intent* Intent i = getIntent();  
 String nom\_recup = i.getStringExtra(**"cle\_nom"**);  
 **final** String num\_recup = i.getStringExtra(**"cle\_num"**);

*//2: afficher le nom dans le TV* **result**.setText(nom\_recup + **" est ajouté avec succès"**);

*//3: action sur le bouton* **call**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {

*//4: intent pour passer l'appel* Intent intent\_call = **new** Intent(Intent.***ACTION\_DIAL***, Uri.*parse*(**"tel:"**+num\_recup));  
 startActivity(intent\_call);  
 }  
 });  
 }  
}

Méthode2 :

**import** android.app.Activity;  
**import** android.content.Intent;  
**import** android.net.Uri;  
**import** android.os.Bundle;  
**import** android.support.annotation.Nullable;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.TextView;  
  
**public class** Call **extends** Activity{  
  
 TextView **result**;  
 Intent **i**;  
 String **nom\_recup**, **num\_recup**;  
  
 @Override  
 **protected void** onCreate(@Nullable Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_call***);  
  
 **i** = getIntent();  
*//récupérer les variables envoyées par l'intent à travers leurs clés* **nom\_recup** = **i**.getStringExtra(**"cle\_nom"**);  
  
 **num\_recup** = **i**.getStringExtra(**"cle\_num"**);  
 **result** = findViewById(R.id.***tvResult***);  
  
 **result**.setText(**nom\_recup**+**" est ajouté avec succès "**+**num\_recup**);  
  
 Button btnCall = findViewById(R.id.***btnCall***);  
 btnCall.setOnClickListener(**new** View.OnClickListener() {

@Override  
 **public void** onClick(View v) {  
 *//concernant l'intent implicite, l'uri doit commencer par tel: si on veut passer un appel  
 //sms: si on veut envoyer un message ....* Intent call = **new** Intent(Intent.***ACTION\_DIAL***, Uri.*parse*(**"tel:"**+**num\_recup**));  
 startActivity(call);  
 }  
 });  
 }  
}

DataBaseController.java :

Méthode1 :

**import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteOpenHelper;  
  
**import** java.util.ArrayList;  
**import** java.util.List;  
  
*//pour gérer une BD sqlite je dois hériter de SQLiteOpenHelper*

**public class** DataBaseController **extends** SQLiteOpenHelper {  
  
 *//nom et version de la BS* **public static** String *Database\_name* =**"contact.db"**;  
 **public static int** *Database\_version* =1;

*//nom de table et champs* **public static** String *table\_name* =**"contact"**;  
 **public static** String *champ\_id* = **"id"**;  
 **public static** String *champ\_nom* = **"nom"**;  
 **public static** String *champ\_num* = **"num"**;  
  
 **public static** String *req\_create* =**"create table "**+*table\_name*+**" ("**+*champ\_id*+**" integer primary key "** +  
 **"autoincrement,"**+ *champ\_nom*+**" text, "**+*champ\_num*+**" text);"**;  
  
 **public static** String *req\_delete* = **"drop table if exists"**+*table\_name*;  
  
 **public** DataBaseController(Context context, String name, SQLiteDatabase.CursorFactory factory, **int** version) {  
 **super**(context, *Database\_name*, **null**, *Database\_version*);  
 }  
  
 @Override  
 **public void** onCreate(SQLiteDatabase db) {  
 *//création de la table  
 //execSQL car req ne retourne rien* db.execSQL(*req\_create*);  
 }  
  
 @Override  
 **public void** onUpgrade(SQLiteDatabase db, **int** oldVersion, **int** newVersion) {  
 *//supprimer la table si existe* db.execSQL(*req\_delete*);

*//créer la table contact* onCreate(db);  
 }  
  
 **public void** insertContact(Contact con){  
 *//1: accéder à la base en mode écriture* SQLiteDatabase db = **this**.getWritableDatabase();

*//2: récupérer les informations du contact con* String nom = con.getNom();  
 String num = con.getNum();  
  
 *//3: et remplir le content values* ContentValues cv = **new** ContentValues();  
 cv.put(*champ\_nom*, nom);  
 cv.put(*champ\_num*, num);  
  
 *//4: insérer* db.insert(*table\_name*, **null**, cv);

*//5: fermer DB* db.close();  
 }  
  
 **public** List<Contact> getAll(){  
 *//création d'une liste pour y stocker le résutat* List<Contact> listResult = **new** ArrayList<>();

*//1: accéder à la BD* SQLiteDatabase db = **this**.getReadableDatabase();

*//2: requête de sélection* String req = **"select \* from "**+*table\_name*;

*//3: exécuter la requête* Cursor curseur = db.rawQuery(req, **null**);

*//4: se rassurer que curseur n'est pas vide* **if**(curseur.moveToFirst()){  
 **do**{  
 Contact c = **new** Contact();  
 **int** id\_ligne = curseur.getInt(0);  
 c.setId(id\_ligne);  
 c.setNom(curseur.getString(1));  
 c.setNum(curseur.getString(2));  
 listResult.add(c);  
 }**while** (curseur.moveToNext());  
 }  
 **return** listResult;  
 }  
}

Méthode2 :

**import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteOpenHelper;  
  
**import** java.util.ArrayList;  
**import** java.util.List;  
  
*//SQLiteOpenHelper héritée pour gérer une base de données SQLite***public class** DataBaseController **extends** SQLiteOpenHelper {  
  
 *//nom et version de la base de données* **private static** String *DATABASE\_NAME* =**"contact.db"**;  
 **private static int** *DATABASE\_VERSION* = 1;

*//les champs de la table contact* **private static** String *champ\_id* =**"id"**;  
 **private static** String *champ\_nom* =**"nom"**;  
 **private static** String *champ\_numero* =**"num"**;

*//nom de la table* **private static** String *table\_name* =**"contact"**;  
  
**private static** String *req\_delete*=**"drop table if exists "**+*table\_name*;  
  
**private static** String *req\_create* =**"create table "**+*table\_name*+**"("**+*champ\_id*+**" INTEGER primary"** +  
 **"key autoincrement, "**+*champ\_nom*+ **"text,"**+*champ\_numero*+**"text);"**;  
  
 **public** DataBaseController(Context context, String name, SQLiteDatabase.CursorFactory factory, **int** version) {  
 **super**(context, *DATABASE\_NAME*, **null**, *DATABASE\_VERSION*);  
 }

@Override  
 **public void** onCreate(SQLiteDatabase db) {  
 *//execSQL : exécuter une requête sql qui retourne pas des valeurs* db.execSQL(*req\_create*);  
 }  
  
 @Override  
 **public void** onUpgrade(SQLiteDatabase db, **int** oldVersion, **int** newVersion) {  
 *//supprimer la table contact si elle existe* db.execSQL(*req\_delete*);

*//créer de nouveau la table contact* onCreate(db);  
 }  
 *//Insertion d'un Contact dans la table* **public void** insertContact(Contact con){  
 *//accéder à la BD en mode écriture* SQLiteDatabase db = **this**.getWritableDatabase();

*//créer un content values pr y stocker les infos du contact* ContentValues cv = **new** ContentValues();

*//remplir le content values* cv.put(*champ\_nom*, con.getNom() );  
 cv.put(*champ\_numero*, con.getNum());

*//insertion du cv* db.insert(*table\_name*, **null**, cv);  
 db.close();  
 }  
 **public** List<Contact> getAll(){  
 List<Contact> listResult = **new** ArrayList<>();  
 *//accéder à la bd en mode lecture* SQLiteDatabase db = **this**.getReadableDatabase();

*//créer la requête* String req = **"select \* from "**+*table\_name*;

*//exécuter la reqûete  
 //rawQuery retourne un objet de type Cursor* Cursor curseur = db.rawQuery(req, **null**);

**if**(curseur.moveToFirst()){

*//le curseur contient au moins une ligne* **do**{  
 Contact c = **new** Contact();  
 c.setId(curseur.getInt(0));  
 c.setNom(curseur.getString(1));  
 c.setNum(curseur.getString(2));  
 listResult.add(c);  
 }**while**(curseur.moveToNext());  
 }  
 **return** listResult;  
 }

}