**Phone book**

**Source code:**

DatabaseHandler.java

**package** com.example.phonebook;  
  
**import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteOpenHelper;  
**import** android.widget.Toast;  
  
*/\*\*  
 \* Created by vivek on 27-03-2018.  
 \*/***public class** DatabaseHandler **extends** SQLiteOpenHelper {  
  
 SQLiteDatabase **db**;  
 Context **context**;  
  
 **public** DatabaseHandler(Context context) {  
 **super**(context, **"phonebook\_db"**, **null**, 1);  
 **this**.**context** = context;  
 **db** = getWritableDatabase();  
 }  
  
 @Override  
 **public void** onCreate(SQLiteDatabase db) {  
 String sql = **"CREATE TABLE phone\_book(id INTEGER PRIMARY KEY AUTOINCREMENT,name TEXT,phone TEXT)"**;  
 db.execSQL(sql);  
 }  
  
 @Override  
 **public void** onUpgrade(SQLiteDatabase db, **int** i, **int** i1) {  
 db.execSQL(**"DROP TABLE IF EXISTS phone\_book"**);  
 onCreate(db);  
 }  
  
 **public void** addContact(String name, String phone) {  
 ContentValues contentValues = **new** ContentValues();  
 contentValues.put(**"name"**, name);  
 contentValues.put(**"phone"**, phone);  
 **long** rid = **db**.insert(**"phone\_book"**, **null**, contentValues);  
 **if** (rid == -1) {  
 Toast.*makeText*(**context**, **"Insert issue"**, Toast.***LENGTH\_SHORT***).show();  
 } **else** {  
 Toast.*makeText*(**context**, **"1 contact inserted"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
  
 **public** String getContacts() {  
 StringBuffer sb = **new** StringBuffer();  
 Cursor cursor = **db**.rawQuery(**"SELECT \* FROM phone\_book"**, **null**);  
 **if** (cursor.getCount() == 0) {  
 Toast.*makeText*(**context**, **"No contacts yet"**, Toast.***LENGTH\_SHORT***).show();  
 **return ""**;  
 } **else** {  
 cursor.moveToFirst();  
 **do** {  
 String name = cursor.getString(1);  
 String phone = cursor.getString(2);  
 sb.append(name + **" "** + phone + **"\n"**);  
 } **while** (cursor.moveToNext());  
 }  
 **return** sb.toString();  
 }  
}

MainActivity.java

**package** com.example.phonebook;  
  
**import** android.content.Intent;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 EditText **etName**, **etNumber**;  
 Button **btnAddContact**, **btnViewContacts**;  
 DatabaseHandler **databaseHandler**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
  
 **etName** = (EditText) findViewById(R.id.***etName***);  
 **etNumber** = (EditText) findViewById(R.id.***etNumber***);  
 **btnAddContact** = (Button) findViewById(R.id.***btnAddContact***);  
 **btnViewContacts** = (Button) findViewById(R.id.***btnViewContacts***);  
  
 **databaseHandler** = **new** DatabaseHandler(**this**);  
  
 **btnAddContact**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String name = **etName**.getText().toString();  
 String number = **etNumber**.getText().toString();  
 **if** (name.length() == 0) {  
 **etName**.setError(**"Please enter name"**);  
 **etName**.requestFocus();  
 **return**;  
 }  
 **if** (number.length() == 0) {  
 **etNumber**.setError(**"Please enter phone number"**);  
 **etNumber**.requestFocus();  
 **return**;  
 }  
 **databaseHandler**.addContact(name, number);  
 }  
 });  
  
 **btnViewContacts**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
  
 String contacts = **databaseHandler**.getContacts();  
 Intent i = **new** Intent(MainActivity.**this**, DisplayActivity.**class**);  
 i.putExtra(**"contacts"**, contacts);  
 startActivity(i);  
 }  
 });  
 }  
}

DisplayActivity.java

**package** com.example.phonebook;  
  
**import** android.content.Intent;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.widget.TextView;  
  
**public class** DisplayActivity **extends** AppCompatActivity {  
  
 TextView **tvContacts**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_display***);  
  
 **tvContacts** = (TextView) findViewById(R.id.***tvContacts***);  
  
 Intent i = getIntent();  
 String contacts = i.getStringExtra(**"contacts"**);  
  
 **tvContacts**.setText(contacts);  
  
 }  
}

**Output window:**

 