**PRACTICAL 14**

**Aim: Create an Android application for a sales man, Application having two buttons called “Take Order” and “View Order”. On click of “Take Order” button a new activity shall be open, which accept customer phone number, item name, and quantity from user. Activity having a button also called “Save”. On click of “Save” button entered data shall be save to SQLite database. On click of “View Order” button a new activity should start which displays list of ordered item to ListView.**

**Code:**

**JAVA FILE: (MainActivity.java)**

package com.example.practical14;

import android.content.Intent;

import android.os.Bundle;

import android.view.View;

import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

findViewById(R.id.button\_take\_order).setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

startActivity(new Intent(MainActivity.this, TakeOrderActivity.class));

}

});

findViewById(R.id.button\_view\_order).setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

startActivity(new Intent(MainActivity.this, ViewOrderActivity.class));

}

});

}

}

**JAVA FILE: (TakeOrderActivity.java)**

package com.example.practical14;

import android.content.ContentValues;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.view.View;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

public class TakeOrderActivity extends AppCompatActivity {

private EditText editTextPhone, editTextItemName, editTextQuantity;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_take\_order);

editTextPhone = findViewById(R.id.editText\_phone);

editTextItemName = findViewById(R.id.editText\_item\_name);

editTextQuantity = findViewById(R.id.editText\_quantity);

Button buttonSave = findViewById(R.id.button\_save);

buttonSave.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

saveOrder();

}

});

}

private void saveOrder() {

String phone = editTextPhone.getText().toString();

String itemName = editTextItemName.getText().toString();

int quantity = Integer.parseInt(editTextQuantity.getText().toString());

// Initialize your SQLiteOpenHelper (e.g., OrderDatabaseHelper) and get a writable database.

OrderDatabaseHelper dbHelper = new OrderDatabaseHelper(this);

SQLiteDatabase db = dbHelper.getWritableDatabase();

ContentValues values = new ContentValues();

values.put(OrderContract.OrderEntry.COLUMN\_PHONE, phone);

values.put(OrderContract.OrderEntry.COLUMN\_ITEM\_NAME, itemName);

values.put(OrderContract.OrderEntry.COLUMN\_QUANTITY, quantity);

db.insert(OrderContract.OrderEntry.TABLE\_NAME, null, values);

db.close();

Toast.makeText(this, "Order saved!", Toast.LENGTH\_SHORT).show();

}

}

**JAVA FILE: (ViewOrderActivity.java)**

package com.example.practical14;

import android.database.Cursor;

import android.database.sqlite.SQLiteDatabase;

import android.os.Bundle;

import android.widget.ArrayAdapter;

import android.widget.ListView;

import androidx.appcompat.app.AppCompatActivity;

import java.util.ArrayList;

public class ViewOrderActivity extends AppCompatActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_view\_order);

ArrayList<String> orderList = getOrders();

ArrayAdapter<String> adapter = new ArrayAdapter<>(this, android.R.layout.simple\_list\_item\_1, orderList);

ListView listView = findViewById(R.id.listView\_orders);

listView.setAdapter(adapter);

}

private ArrayList<String> getOrders() {

ArrayList<String> orderList = new ArrayList<>();

OrderDatabaseHelper dbHelper = new OrderDatabaseHelper(this);

SQLiteDatabase db = dbHelper.getReadableDatabase();

String[] projection = {

OrderContract.OrderEntry.COLUMN\_PHONE,

OrderContract.OrderEntry.COLUMN\_ITEM\_NAME,

OrderContract.OrderEntry.COLUMN\_QUANTITY

};

Cursor cursor = db.query(

OrderContract.OrderEntry.TABLE\_NAME,

projection,

null,

null,

null,

null,

null

);

while (cursor.moveToNext()) {

String phone = cursor.getString(cursor.getColumnIndexOrThrow(OrderContract.OrderEntry.COLUMN\_PHONE));

String itemName = cursor.getString(cursor.getColumnIndexOrThrow(OrderContract.OrderEntry.COLUMN\_ITEM\_NAME));

int quantity = cursor.getInt(cursor.getColumnIndexOrThrow(OrderContract.OrderEntry.COLUMN\_QUANTITY));

String order = "Phone: " + phone + ", Item: " + itemName + ", Quantity: " + quantity;

orderList.add(order);

}

cursor.close();

db.close();

return orderList;

}

}

**JAVA FILE: (OrderDatabaseHelper.java)**

package com.example.practical14;

import android.content.Context;

import android.database.sqlite.SQLiteDatabase;

import android.database.sqlite.SQLiteOpenHelper;

public class OrderDatabaseHelper extends SQLiteOpenHelper {

private static final String DATABASE\_NAME = "order.db";

private static final int DATABASE\_VERSION = 1;

private static final String SQL\_CREATE\_ENTRIES =

"CREATE TABLE " + OrderContract.OrderEntry.TABLE\_NAME + " (" +

OrderContract.OrderEntry.\_ID + " INTEGER PRIMARY KEY," +

OrderContract.OrderEntry.COLUMN\_PHONE + " TEXT," +

OrderContract.OrderEntry.COLUMN\_ITEM\_NAME + " TEXT," +

OrderContract.OrderEntry.COLUMN\_QUANTITY + " INTEGER)";

private static final String SQL\_DELETE\_ENTRIES =

"DROP TABLE IF EXISTS " + OrderContract.OrderEntry.TABLE\_NAME;

public OrderDatabaseHelper(Context context) {

super(context, DATABASE\_NAME, null, DATABASE\_VERSION);

}

@Override

public void onCreate(SQLiteDatabase db) {

db.execSQL(SQL\_CREATE\_ENTRIES);

}

@Override

public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {

db.execSQL(SQL\_DELETE\_ENTRIES);

onCreate(db);

}

}

**JAVA FILE: (OrderContact.java)**

package com.example.practical14;

import android.provider.BaseColumns;

public final class OrderContract {

private OrderContract() {}

public static class OrderEntry implements BaseColumns {

public static final String TABLE\_NAME = "orders";

public static final String COLUMN\_PHONE = "phone";

public static final String COLUMN\_ITEM\_NAME = "item\_name";

public static final String COLUMN\_QUANTITY = "quantity";

}

}

**XML FILE: (activity\_main.xml)**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout 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"

android:orientation="vertical"

android:padding="16dp"

tools:context=".MainActivity">

<Button

android:id="@+id/button\_take\_order"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Take Order" />

<Button

android:id="@+id/button\_view\_order"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="View Order" />

</LinearLayout>

**XML FILE: (activity\_take\_order.xml)**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout 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"

android:orientation="vertical"

android:padding="16dp"

tools:context=".TakeOrderActivity">

<EditText

android:id="@+id/editText\_phone"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Customer Phone Number" />

<EditText

android:id="@+id/editText\_item\_name"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:hint="Item Name" />

<EditText

android:id="@+id/editText\_quantity"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:inputType="number"

android:hint="Quantity" />

<Button

android:id="@+id/button\_save"

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Save" />

</LinearLayout>

**XML FILE: (activity\_view\_order.xml)**

<?xml version="1.0" encoding="utf-8"?>

<ListView xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:tools="http://schemas.android.com/tools"

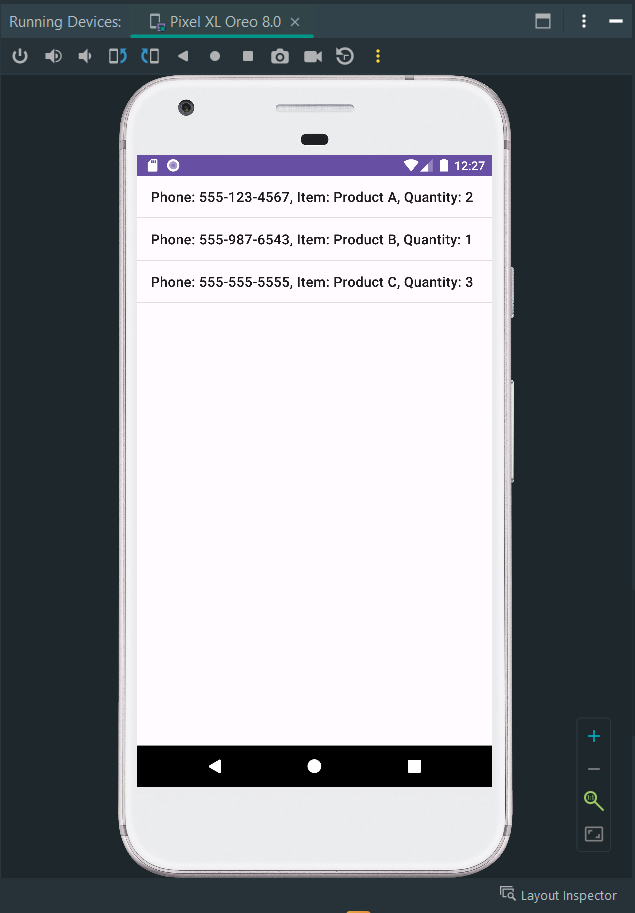
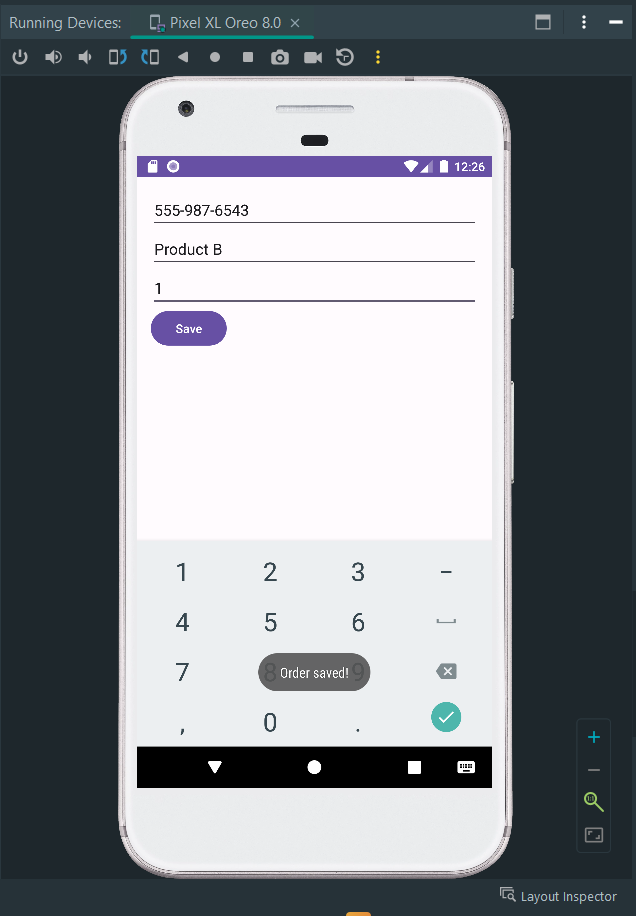
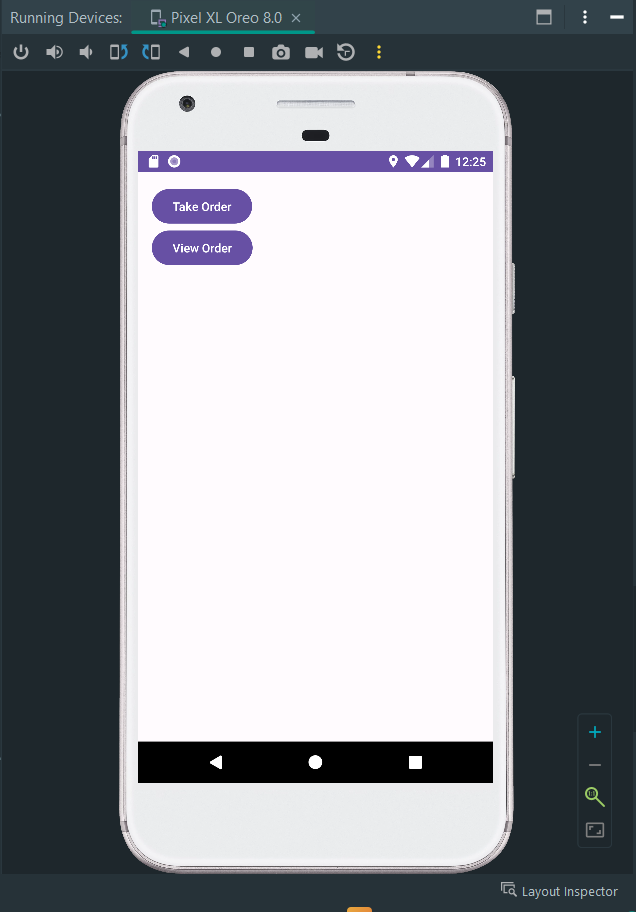
android:id="@+id/listView\_orders"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

tools:context=".ViewOrderActivity" />

**Output:**

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