

---

**1. Realizar una APK utilizando el formato del archivo adjunto.**

**activity\_main.xml**

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/LinearLayout1"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context="com.example.basedatosin.MainActivity" >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Productos" />

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content" >

        <TextView
            android:id="@+id/textView2"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Cod.Prod:" />

        <EditText
            android:id="@+id/editText1"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:ems="10" >
```

```
        <requestFocus />
    </EditText>
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content" >
```

```
    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Descripcion:" />
```

```
    <EditText
        android:id="@+id/editText2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:ems="10" />
```

```
</LinearLayout>
```

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content" >
```

```
    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="PrecioVenta:" />
```

```
    <EditText
        android:id="@+id/editText3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:ems="10" />
```

```
</LinearLayout>
```

```
<LinearLayout
```

```
android:layout_width="match_parent"
android:layout_height="wrap_content" >
```

```
<Button
```

```
    android:id="@+id/button1"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:onClick="insert"
    android:text="Insertar" />
```

```
<Button
```

```
    android:id="@+id/button2"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:onClick="find"
    android:text="Buscar" />
```

```
<Button
```

```
    android:id="@+id/button3"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:onClick="show"
    android:text="Listar" />
```

```
<Button
```

```
    android:id="@+id/button4"
    style="?android:attr/buttonStyleSmall"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:onClick="clean"
    android:text="Limpiar" />
```

```
</LinearLayout>
```

```
<TextView
```

```
    android:id="@+id/textView5"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="" />
```

```
</LinearLayout>
```

## MainActivity.java

```
package com.example.basedatosin;

import android.app.Activity;
import android.os.Bundle;
import android.text.method.ScrollingMovementMethod;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity extends Activity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        getMenuInflater().inflate(R.menu.main, menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        int id = item.getItemId();
        if (id == R.id.action_settings) {
            return true;
        }
        return super.onOptionsItemSelected(item);
    }

    public void clean(View v) {
        EditText edit1 = (EditText) findViewById(R.id.editText1);
        EditText edit2 = (EditText) findViewById(R.id.editText2);
        EditText edit3 = (EditText) findViewById(R.id.editText3);
        TextView text5 = (TextView) findViewById(R.id.textView5);
        edit1.setText("");
    }
}
```

```

        edit2.setText("");
        edit3.setText("");
        text5.setText("");
    }

    public void insert(View v) {
        EditText edit1 = (EditText) findViewById(R.id.editText1);
        EditText edit2 = (EditText) findViewById(R.id.editText2);
        EditText edit3 = (EditText) findViewById(R.id.editText3);

        String qcod = edit1.getText().toString();
        String qdes = edit2.getText().toString();
        String pventa = edit3.getText().toString();

        Productos db = null;
        try {
            db = new Productos(MainActivity.this);
            db.apertura();
            long resultado = db.Insertar(qcod, qdes, pventa);
            if (resultado == -1)
                Toast.makeText(this, "No insertado", 1).show();
            else
                Toast.makeText(this, "Correcto!", 1).show();
        } catch (Exception e) {
            Toast.makeText(this, "Error insert", 1).show();
        } finally {
            db.cerrar();
        }
    }

    public void find(View v) {
        EditText edit1 = (EditText) findViewById(R.id.editText1);
        EditText edit2 = (EditText) findViewById(R.id.editText2);
        EditText edit3 = (EditText) findViewById(R.id.editText3);
        Productos db = null;
        try {
            db = new Productos(MainActivity.this);
            db.apertura();
            String resultado = db.Buscar(edit1.getText().toString());
            if (resultado.isEmpty()) {
                Toast.makeText(this, "No Encontrado", 1).show();
            } else {
                String arr[] = resultado.split(" ");
                edit2.setText(arr[1]);
                edit3.setText(arr[2]);
            }
        }
    }

```

```

    }
    } catch (Exception e) {
        Toast.makeText(this, "Error find", 1).show();
    } finally {
        db.cerrar();
    }
}

public void show(View v) {
    Productos db = null;
    try {
        db = new Productos(MainActivity.this);
        db.apertura();
        String resultado = db.Listar();
        TextView text5 = (TextView) findViewById(R.id.textView5);
        text5.setMovementMethod(new ScrollingMovementMethod());
        text5.setText(resultado);
    } catch (Exception e) {
        Toast.makeText(this, "error show", 1).show();
    } finally {
        db.cerrar();
    }
}
}

```

## Productos.java

```

package com.example.basedatosin;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

public class Productos {
    public static final String CODPRO = "codigo";
    public static final String DESPRO = "descripcion";
    public static final String PREPRO = "precio";
    private static final String N_TABLA = "productos";
    private static final String N_BD = "Ventas.db";
    private static final int VERSION_BD = 1;

    private Creactua Control;

```

```

private final Context nContexto;
private static SQLiteDatabase pBD;

private static class Creactua extends SQLiteOpenHelper {
    public Creactua(Context context) {
        super(context, N_BD, null, VERSION_BD);
    }

    @Override
    public void onCreate(SQLiteDatabase db) {
        db.execSQL("CREATE TABLE " + N_TABLA + " ( " + CODPRO
            + " INTEGER PRIMARY KEY, " + DESPRO + " TEXT NOT NULL, "
            + PREPRO + " DECIMAL(12,2) NOT NULL);");
    }

    @Override
    public void onUpgrade(SQLiteDatabase db, int av, int nv) {
        db.execSQL("DROP TABLE IF EXISTS " + N_TABLA);
        onCreate(db);
    }
}

public Productos(Context c) {
    nContexto = c;
}

public Productos apertura() throws Exception {
    Control = new Creactua(nContexto);
    pBD = Control.getWritableDatabase();
    return this;
}

public long Insertar(String qcod, String qdes, String pventa) {
    ContentValues cv = new ContentValues();
    cv.put(CODPRO, qcod);
    cv.put(DESCPRO, qdes);
    cv.put(PREPRO, pventa);
    return pBD.insert(N_TABLA, null, cv);
}

public void cerrar() {
    Control.close();
}

public String Listar() {
    String[] columnas = new String[] { CODPRO, DESPRO, PREPRO };
    Cursor c = pBD.query(N_TABLA, columnas, null, null, null, null, null);
}

```

```

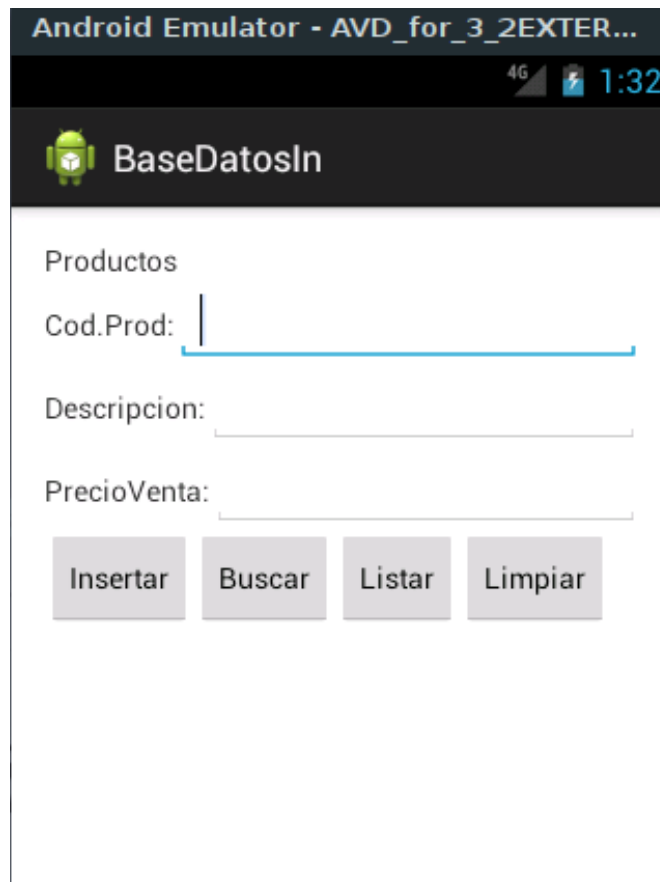
String res = "";
int iCod = c.getColumnIndex(CODPRO);
int iDes = c.getColumnIndex(DESCPRO);
int iPre = c.getColumnIndex(PREPRO);
for (c.moveToFirst(); !c.isAfterLast(); c.moveToNext()) {
    res = res + c.getString(iCod) + " " + c.getString(iDes) + " "
        + c.getString(iPre);
    res += '\n';
}
return res;
}

public String Buscar(String value) {
    String[] columnas = new String[] { CODPRO, DESCPRO, PREPRO };
    Cursor c = pBD.query(N_TABLA, columnas, null, null, null, null, null);
    String res = "";
    int iCod = c.getColumnIndex(CODPRO);
    int iDes = c.getColumnIndex(DESCPRO);
    int iPre = c.getColumnIndex(PREPRO);
    for (c.moveToFirst(); !c.isAfterLast(); c.moveToNext()) {
        if (c.getString(iCod).equals(value)) {
            res = res + c.getString(iCod) + " " + c.getString(iDes) + " "
                + c.getString(iPre) + " ";
            break;
        }
    }
    return res;
}
}

```



## Capturas de Pantalla



Correcto!

