**SQLITE**

**I. Build.gradle (Module :app)**

buildFeatures **{** viewBinding true  
**}**

**II. Java**

1. **MainActivity**

package com.example.sqliten01  
  
import androidx.appcompat.app.AppCompatActivity  
import android.os.Bundle  
import com.example.sqliten01.databinding.ActivityMainBinding  
  
class MainActivity : AppCompatActivity() {  
 lateinit var binding: ActivityMainBinding  
 override fun onCreate(savedInstanceState: Bundle?) {  
 super.onCreate(savedInstanceState)  
 binding = ActivityMainBinding.inflate(*layoutInflater*)  
 setContentView(binding.*root*)  
 val helper = MyDB(*applicationContext*)  
 val db = helper.*readableDatabase* var rs = db.rawQuery("select \* from users", null)  
 rs.moveToFirst()  
 binding.tvUsername.setText(rs.getString(1))  
 binding.tvPassword.setText(rs.getString(2))  
 binding.btnNext.setOnClickListener **{** if (!rs.moveToNext()) {  
 rs.moveToFirst()  
 }  
 binding.tvUsername.setText(rs.getString(1))  
 binding.tvPassword.setText(rs.getString(2))  
 **}** }  
}

1. **MyDB**

package com.example.sqliten01  
  
import android.content.Context  
import android.database.sqlite.SQLiteDatabase  
import android.database.sqlite.SQLiteOpenHelper  
  
class MyDB(context: Context): SQLiteOpenHelper(context, "users", null, 1) {  
 override fun onCreate(p0: SQLiteDatabase?) {  
 p0?.execSQL("create table users(id integer primary key autoincrement not null, username text, password text)")  
 p0?.execSQL("insert into users(username,password) values('student1@gmail.com', '123456')")  
 p0?.execSQL("insert into users(username,password) values('student2@gmail.com', '123456')")  
 }  
  
 override fun onUpgrade(p0: SQLiteDatabase?, p1: Int, p2: Int) {  
 *TODO*("Not yet implemented")  
 }  
}

**III. Res -> Layout**

1. **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:gravity="center"  
 tools:context=".MainActivity">  
  
 <TextView  
 android:id="@+id/tvUsername"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:padding="10dp"  
 android:text="Hello World!"/>  
  
 <TextView  
 android:id="@+id/tvPassword"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:gravity="center"  
 android:padding="10dp"  
 android:text="Hello World!"/>  
  
 <Button  
 android:id="@+id/btnNext"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Next"/>  
  
</LinearLayout>

