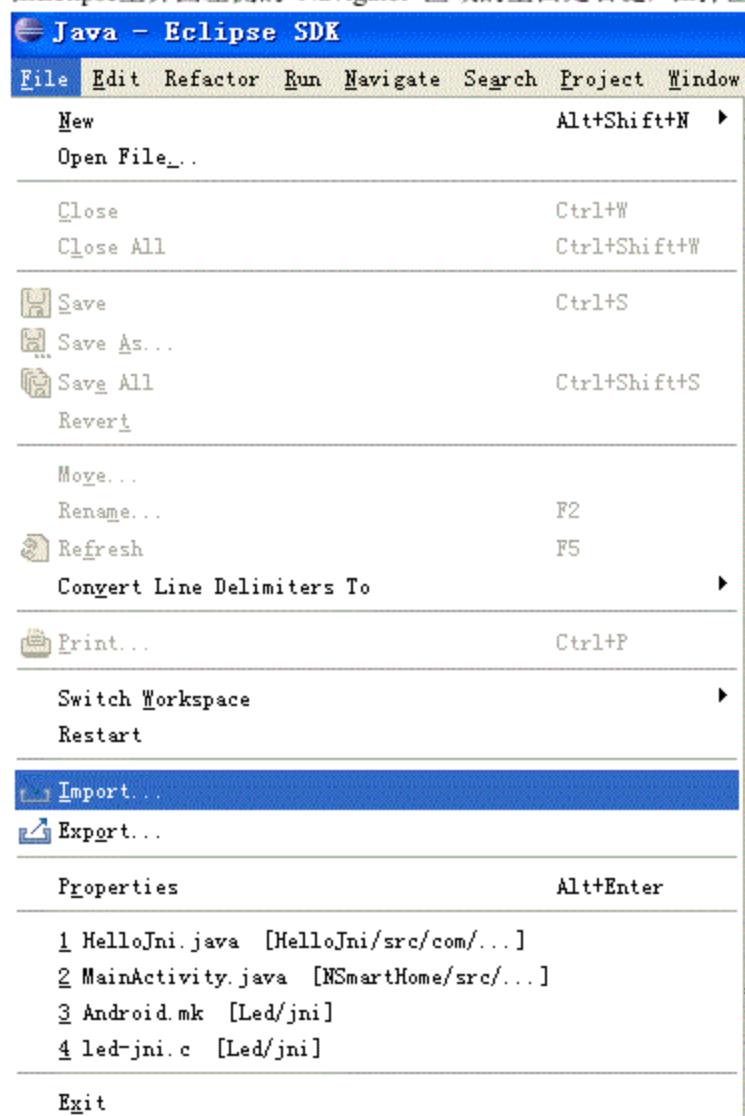


实验一 JNI 实验

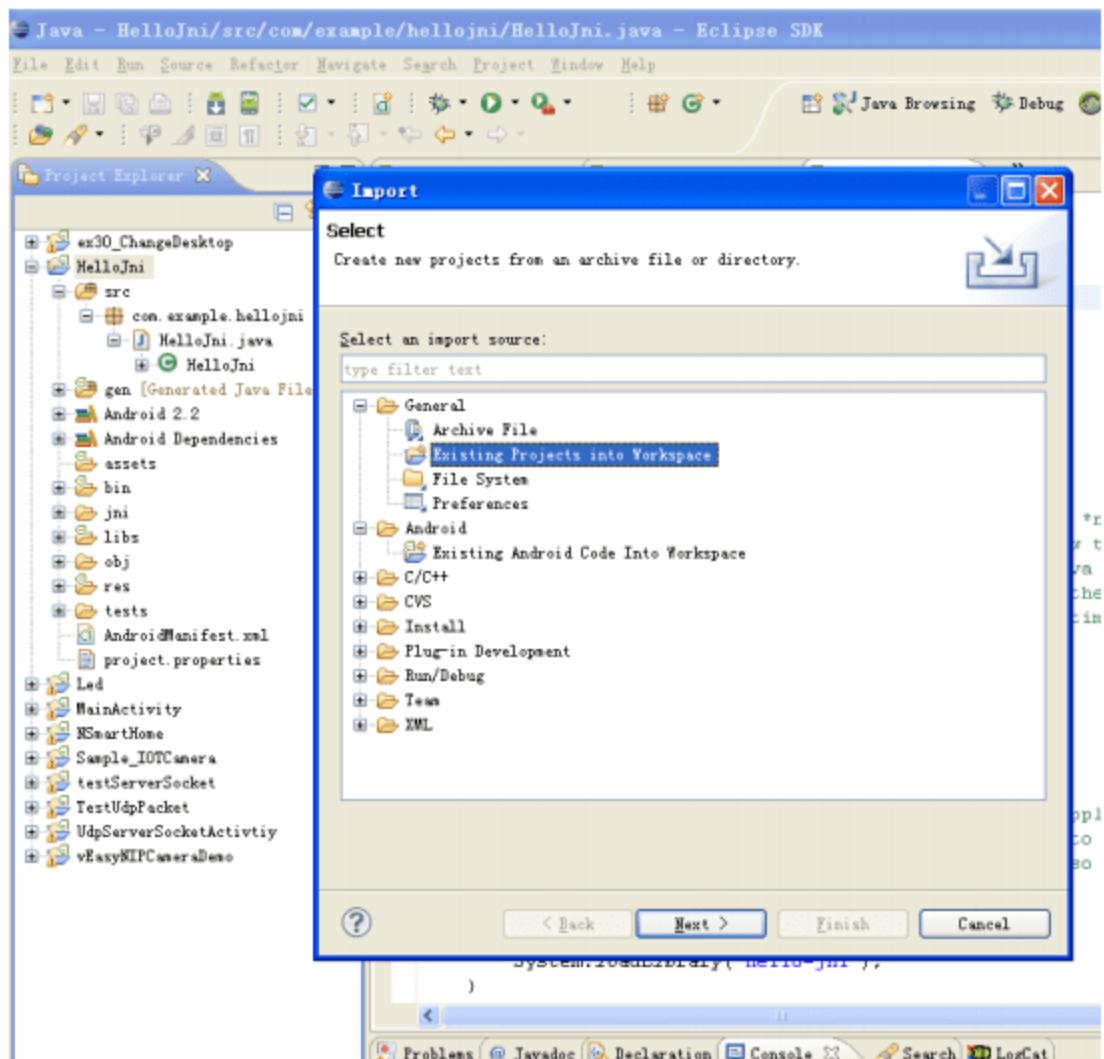
【实验步骤】

- 1、按照实验原理描述编写程序，或在光盘资料中找到HelloJni目录，将其导入到Eclipse中，导入方法如下：

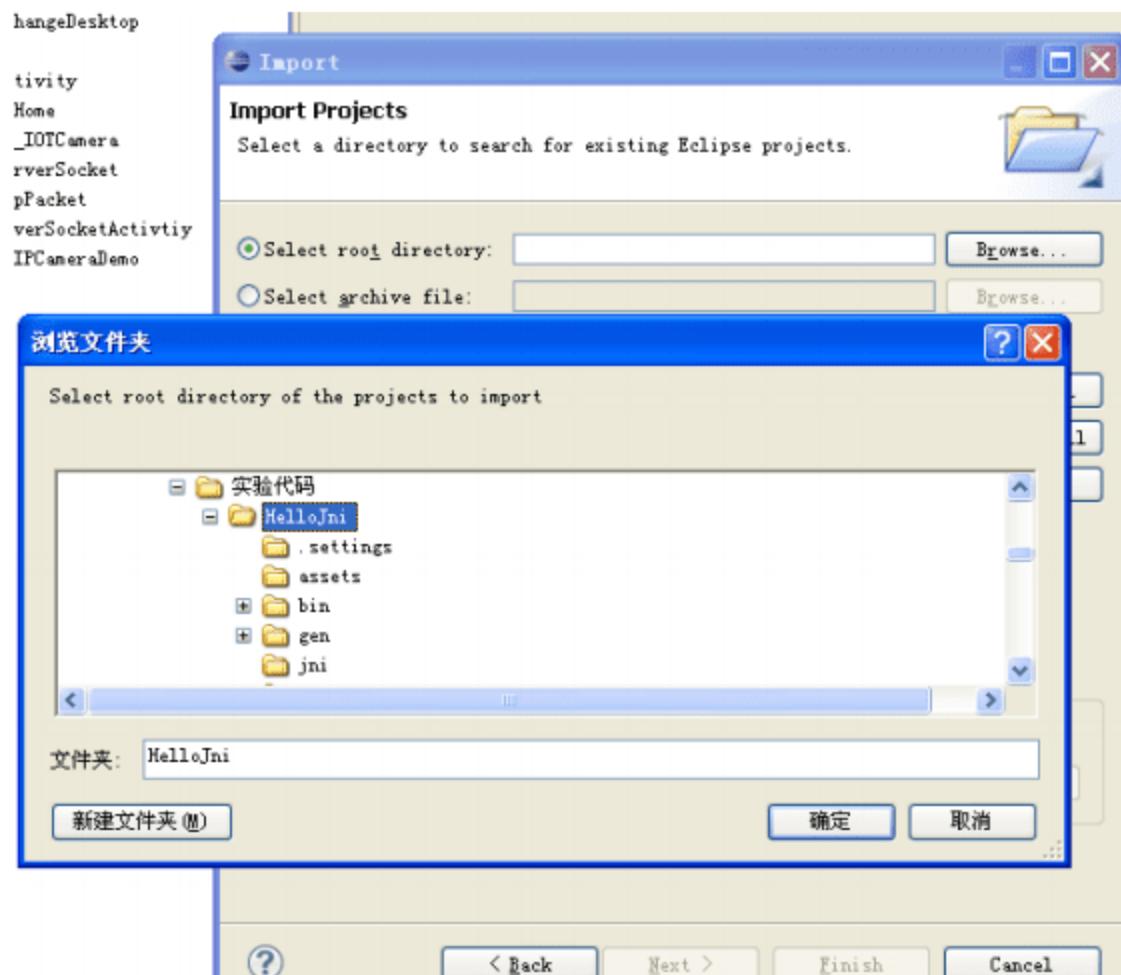
在Eclipse主界面左侧的“Navigator”区域的空白处右键，在弹出的菜单中选择“Import...”，



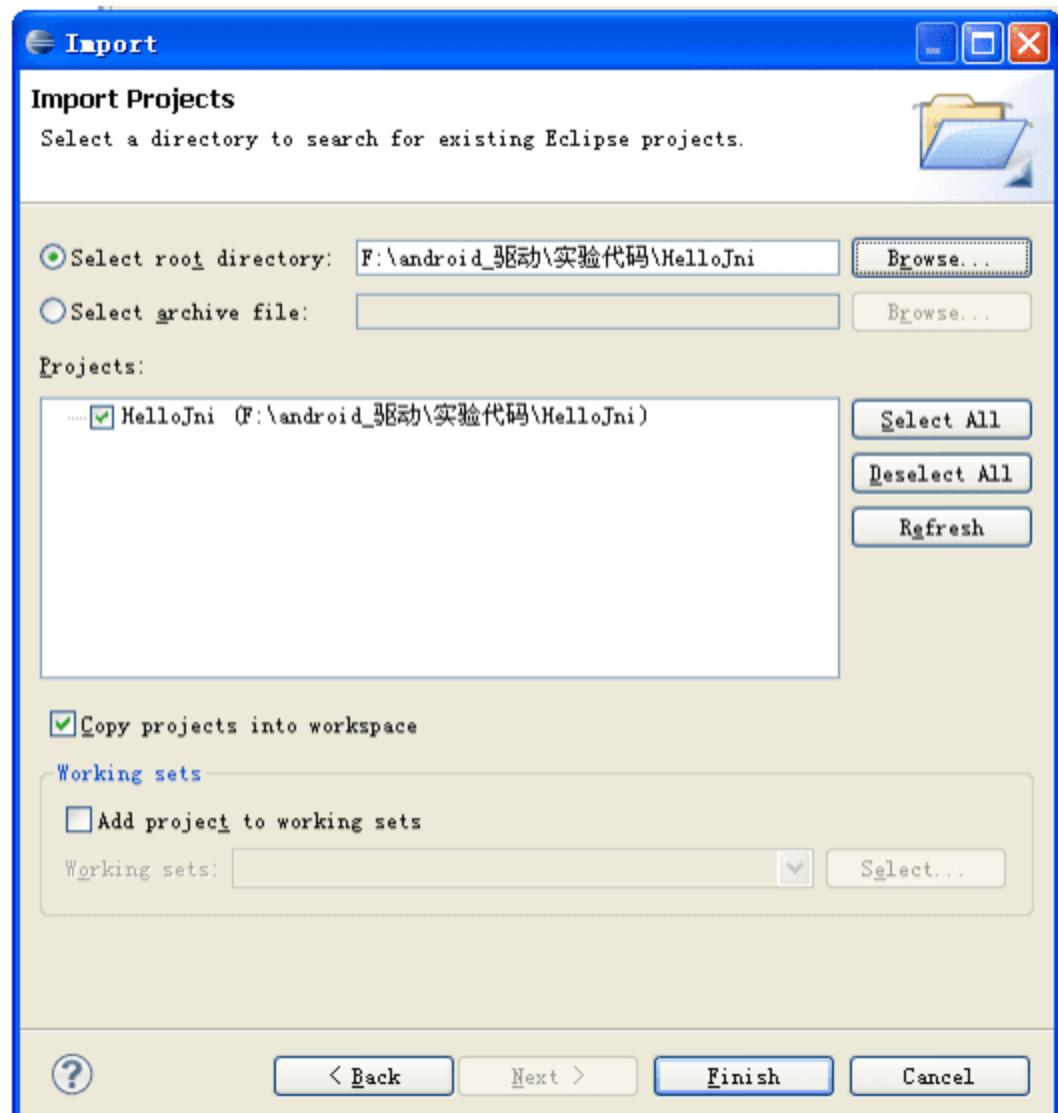
如下图 “Import...”菜单所示：



选择“Next”后进入浏览工程所在的目录界面，如下图



在弹出的对话框中，点击右侧的“Browse”按钮，选择HelloJni\工程文件夹，如图选择导入工程路径所示，然后点击“确定”：



点击“Finish”按钮后加载完成

完成之后，即可在Eclipse的Navigator区域，看到HelloJni工程已经被导入到工作区，如图导入完成所示：

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer View:** Shows the project structure under "HelloJni". The "src" folder contains "com.example.hellojni" which has "HelloJni.java" and "HelloJni".
- Java Editor View:** Displays two files:
 - LedActivity.java:** Contains Java code for setting up a TextView to display text from a native method.
 - MainActivity.java:** Contains Java code for calling native methods and handling their return values.

```
Java - HelloJni/src/com/example/hellojni/HelloJni.java - Eclipse SDK
File Edit Run Source Refactor Navigate Search Project Window Help
Project Explorer X
LedActivity.java MainActivity.java
*/
TextView tv = new TextView
tv.setText( stringFromJNI()
setContentView(tv);

}

/* A native method that is impl
 * 'hello-jni' native library,
 * with this application.
 */
public native String stringFro

/*
 * This is another native metho
 * implemented by 'hello-jni'.
 * you can declare as many nati
 * as you want, their implement
 * currently loaded native libr
 * you call them.
 *
 * Trying to call this function
 * java.lang.UnsatisfiedLinkErr
 */
public native String unimpleme

/*
 * this is used to load the 'he
 * startup. The library has alr
 * /data/data/com.example.hello
 * installation time by the pac
 */
static {

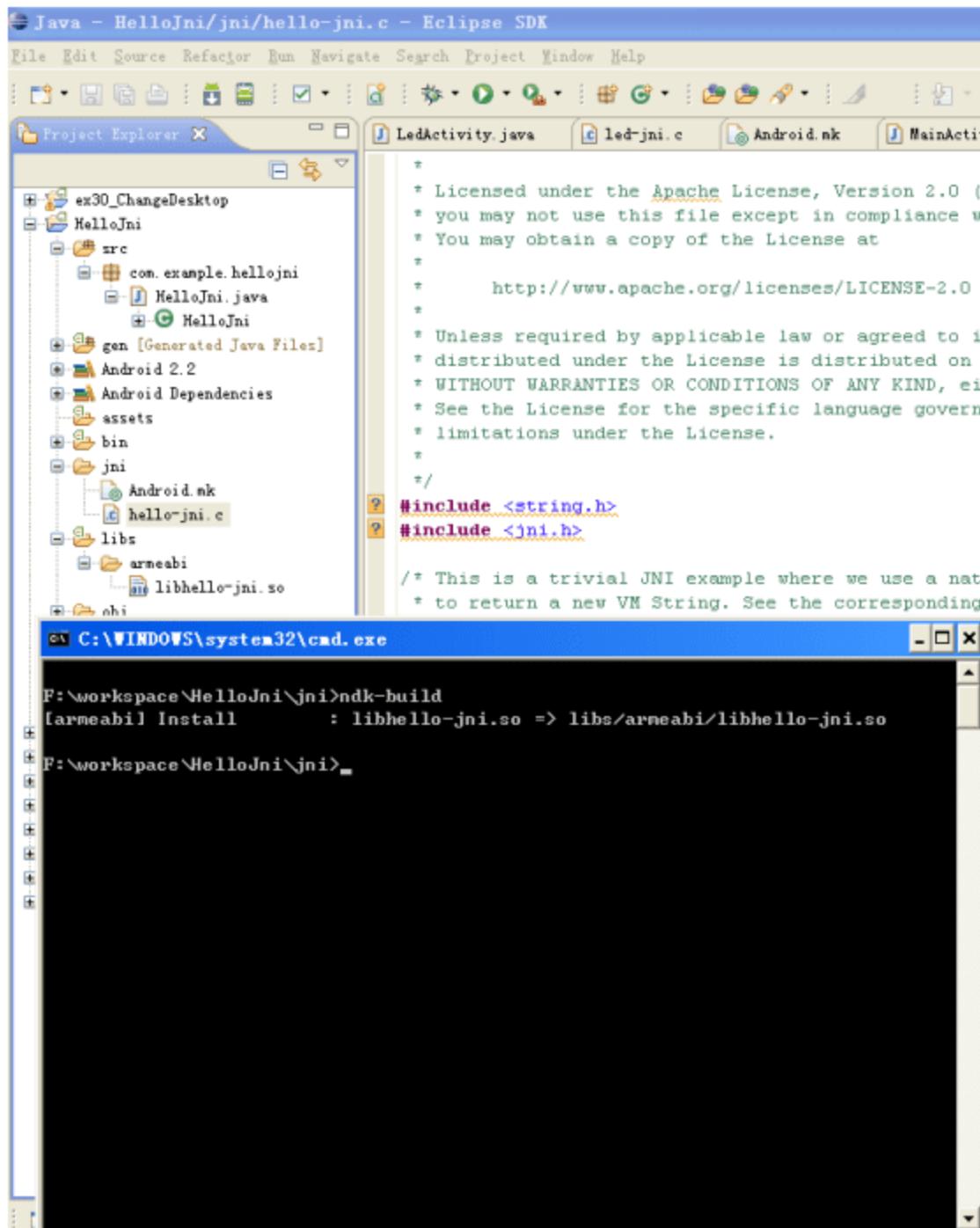
}
```

2、安装并设置NDK路径

如果你的机器上没有NDK环境，可以到我们提供的工具目录下
android-ndk-r9b-windows-x86.zip
解开后并在系统变量PATH中设置NDK所在目录。

3、用NDK编译jni下的c文件

进入工程目录下的jni目录下，编译hello-jni.c



编译后在libs/armeabi/下生成库: libhello-jni.so

4、连接PC和A8实验箱

用提供的USB线, 将大头插入PC机的USB口, 小头插入实验箱的USB (OTG)

5、运行Eclipse中编写的的应用程序

回到 Eclipse 中, 右键点击新导入的 HelloJni 项目, 在快捷菜单中选择“Run as→Android Application”, 如下图运行 Android 的 app 所示。