

## Example to Set up a Hello World application on Android

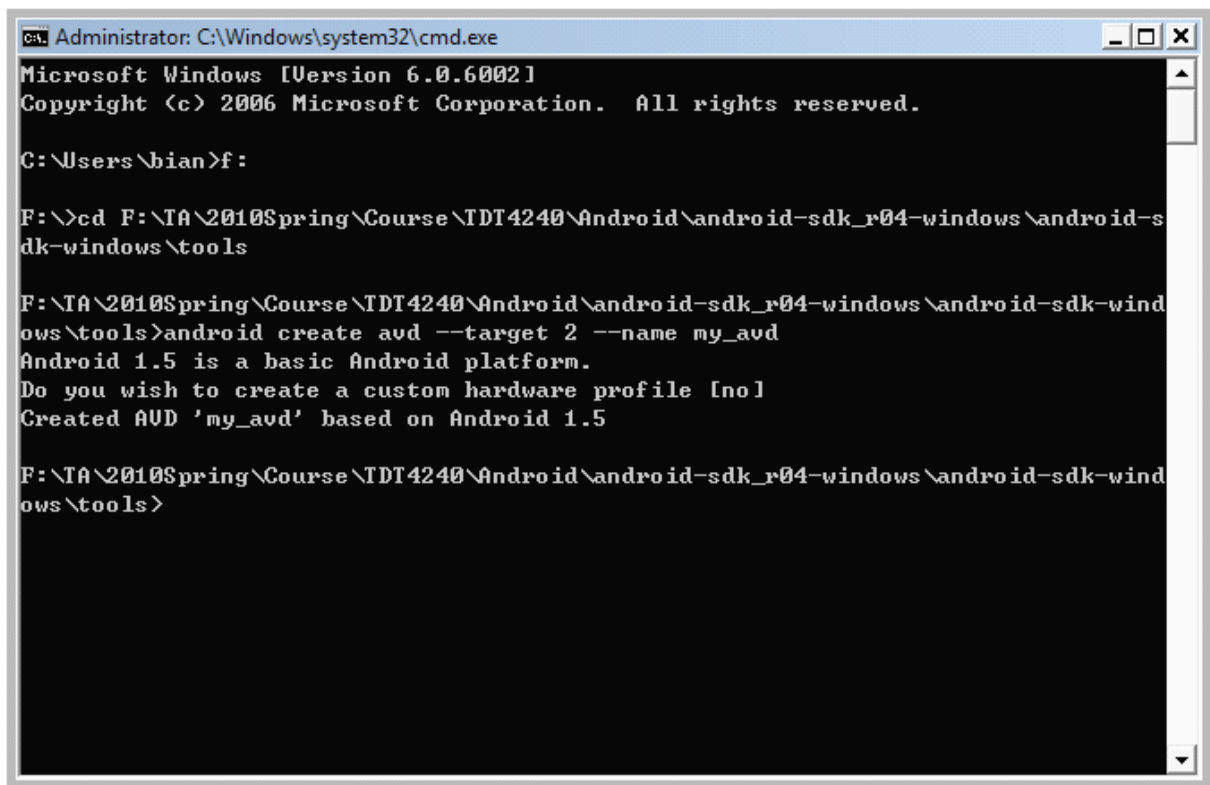
### 1 Create an Android Virtual Device (AVD)

Before you can launch the Android emulator for debug, you must create an Android Virtual Device (AVD).

To create an AVD, use the "android" tool provided in the Android SDK. Open a command prompt or terminal, navigate to the tools/ directory in the SDK package and execute:

```
android create avd --target 2 --name my_avd
```

The tool now asks if you would like to create a custom hardware profile. For the time being, press Return to skip it ("no" is the default response). That's it. The whole process like following:



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.0.6002]
Copyright (c) 2006 Microsoft Corporation. All rights reserved.

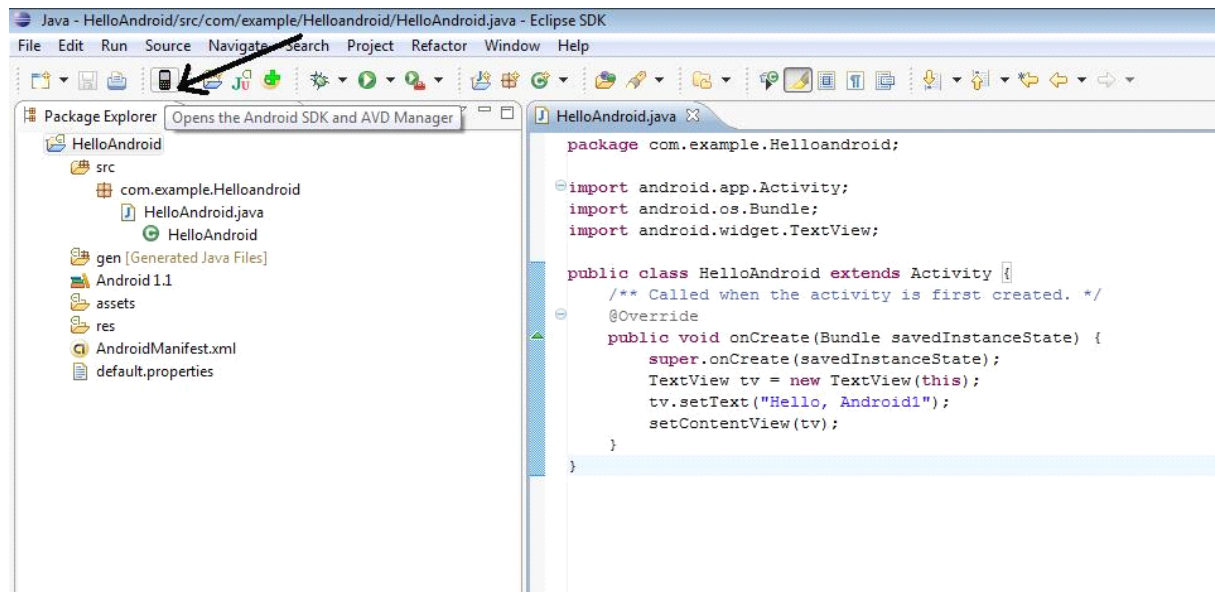
C:\Users\bian>f:

F:\>cd F:\TA\2010Spring\Course\TDT4240\Android\android-sdk_r04-windows\android-s
dk-windows\tools

F:\TA\2010Spring\Course\TDT4240\Android\android-sdk_r04-windows\android-sdk-wind
ows\tools>android create avd --target 2 --name my_avd
Android 1.5 is a basic Android platform.
Do you wish to create a custom hardware profile [no]
Created AVD 'my_avd' based on Android 1.5

F:\TA\2010Spring\Course\TDT4240\Android\android-sdk_r04-windows\android-sdk-wind
ows\tools>
```

2 Open Eclipse. Click the button(like a small mobile phone) in the following figure, to run the Android SDK.



## 2 Create a New Android Project

From Eclipse, select File > New > Project.

Select "Android Project" and click Next.

Fill in the project details with the following values:

- Project name: HelloAndroid
- Application name: Hello, Android
- Package name: com.example.helloandroid (or your own private namespace)
- Create Activity: HelloAndroid
- Min SDK Version: 2

Click Finish.

## 3 Open the HelloAndroid.java file, Add some code to it. The final code is like following:

```
package com.example.helloandroid;

import android.app.Activity;
import android.os.Bundle;

public class HelloAndroid extends Activity {
    /** Called when the activity is first created. */
```

```
@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.main);
}
}
```

#### 4 Run the Application

Select Run > Run.

Select "Android Application".

Wait more than **one or two minutes**, you will see "Hello, Android" on the emulator.