




CS482 Lab Session

2016. 9. 7



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Java SE Development Kit

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Install **Android Studio**

Android Studio

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https://developer.android.com/studio/index.html

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Android Studio

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System environment: Windows / Mac OS X / Linux

Platform	Android Studio package	Size	SHA-1 checksum
Windows	android-studio-windows-143-1711431-windows.exe	1,261 MB	156E176772608960ec0e52431ef8221ee69616
	includes-Android-SDK-licenses.exe	812 (214.7K) bytes	
	android-studio-143-1711431-windows.exe	258 MB	43916a1e1157881e12e1326e797e1c549690e
Mac OS X	android-studio-143-1711431-macos.dmg	375 MB	8a212a5571ab7a480a8b7a75a19371ac214
	includes-Android-SDK-licenses.dmg	375 MB	(381)6687A bytes
Linux	android-studio-143-1711431-linux.tar.gz	375 MB	961667916a1e12e1326e797e1c549690e
	includes-Android-SDK-licenses.tar.gz	375 MB	832232796 bytes

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VISUAL COMPUTING Lab



Android Studio

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- Installation complete.
- If you don't want to import your Android Studio setting, select the second option.

Complete Installation

You can import your settings from a previous version of Studio.

I want to import my settings from a custom location

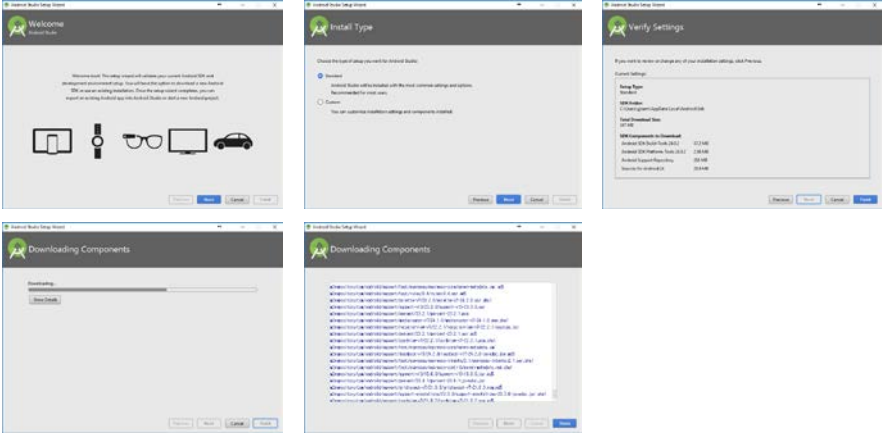
Specify config folder or installation home of the previous version of Studio:

I do not have a previous version of Studio or I do not want to import my settings


Android Studio

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- Next – Next – Next - Finish



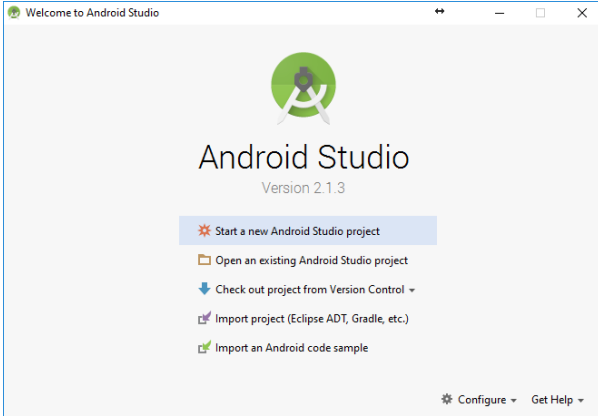
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Android Studio

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- Android Studio setup done!
- Now you are ready to make an Android app.



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Android Hello World example

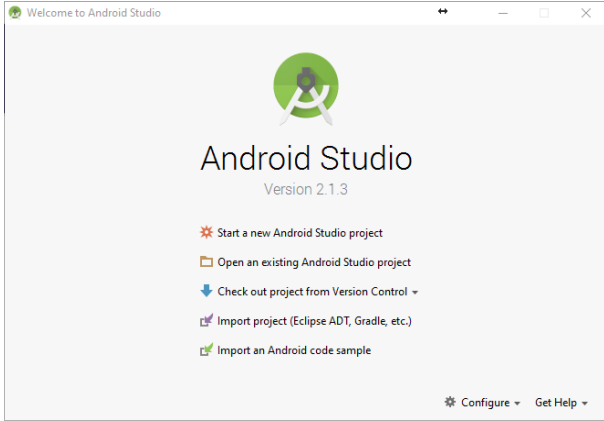
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Hello World

- Now, let's make a simple hello world app.
- Start a new Android Studio project



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VISUAL COMPUTING Lab

Hello World

Create New Project

New Project
Android Studio

Configure your new project

Application name: My Application

Company Domain: ginam.example.com

Package name: com.example.ginam.myapplication [Edit](#)

Project location: C:\Users\ginam\AndroidStudioProjects\MyApplication

Previous Next Cancel Finish

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Hello World

Create New Project

Target Android Devices

Select the form factors your app will run on

Different platforms may require separate SDKs

Phone and Tablet

Minimum SDK: API 15: Android 4.0.3 (IceCreamSandwich)

Lower API levels target more devices, but have fewer features available.
By targeting API 15 and later, your app will run on approximately 97.4% of the devices that are active on the Google Play Store.
[Help me choose](#)

Wear

Minimum SDK: API 21: Android 5.0 (Lollipop)

TV

Minimum SDK: API 21: Android 5.0 (Lollipop)

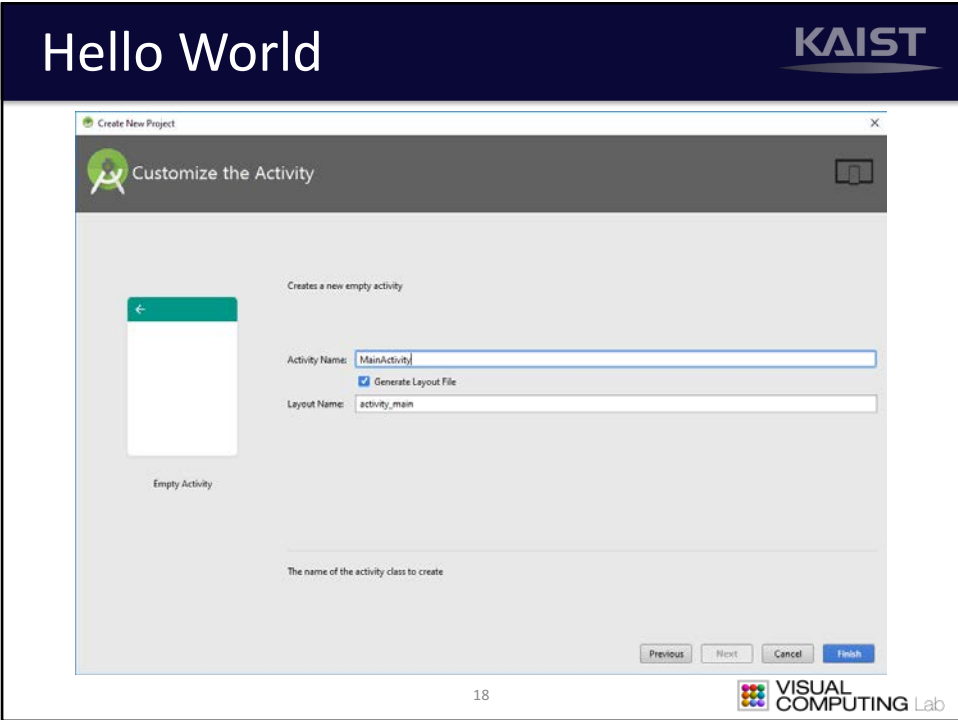
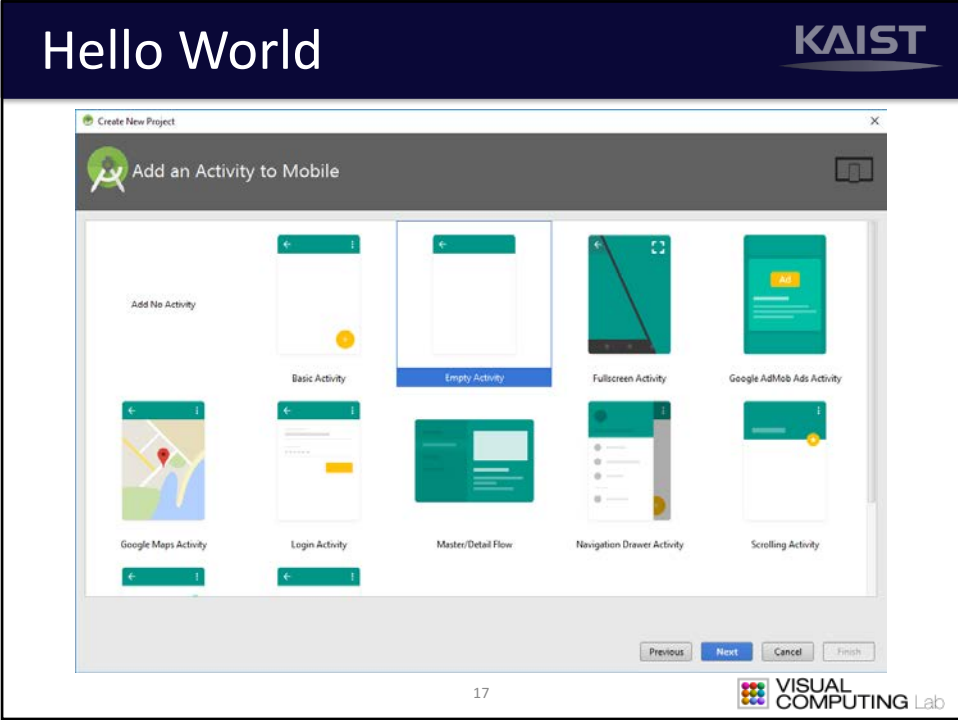
Android Auto

Glass


Minimum SDK: Glass Development Kit Preview (API 19)

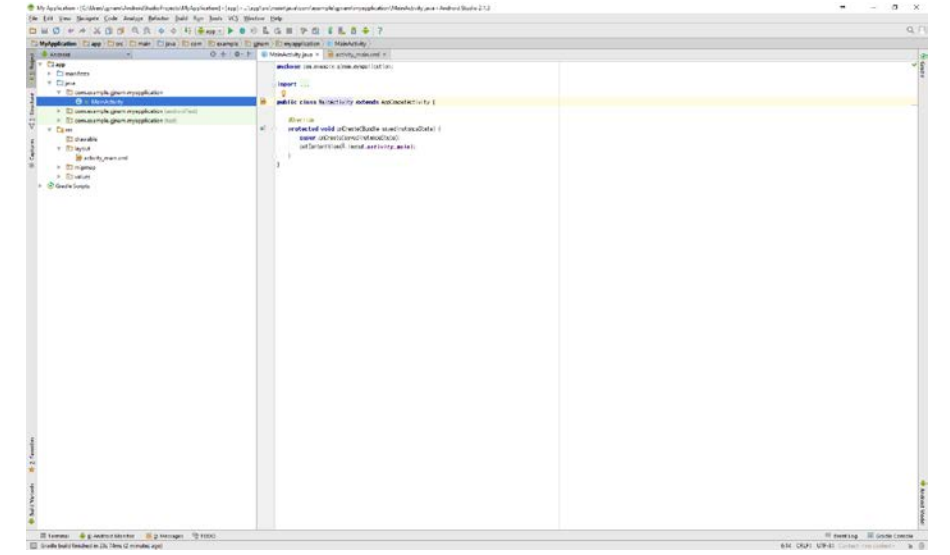
Previous Next Cancel Finish

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Hello World






```
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.TextView;


public class MainActivity extends AppCompatActivity {

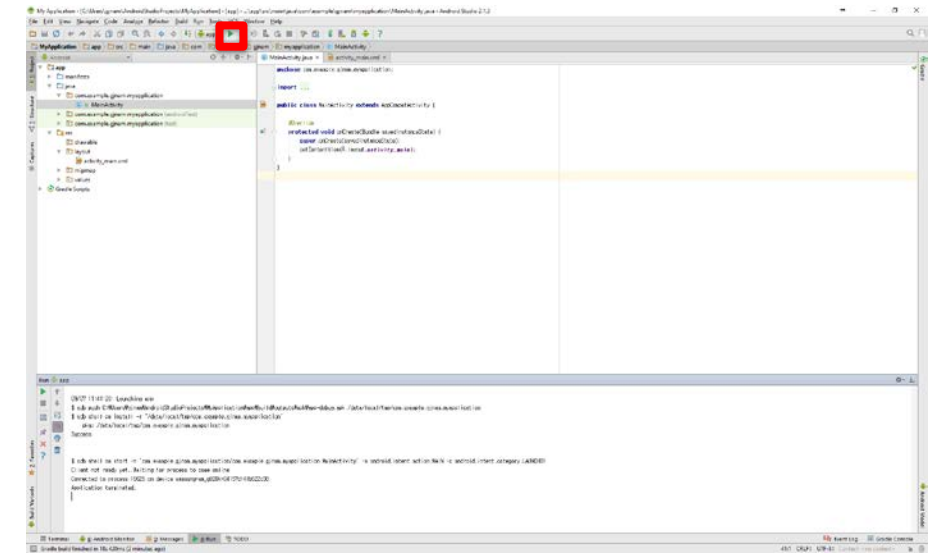
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }
}
```

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Hello World






```
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.TextView;

public class MainActivity extends AppCompatActivity {

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

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Hello World



- Done!



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Install **Git**

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Git

• Next – Next – ... – Next – Finish

The screenshots show the following steps in the Git installation wizard:

- License:** GNU General Public License (version 2, June 1989).
- Select installation location:** Selecting the default installation path.
- Select components:** Choosing which components to install (e.g., command-line tools, GUI).
- Select proxy server:** Configuring a proxy server if needed.
- Configuring the system options:** Enabling system options like system-wide configuration and credential helpers.
- Configuring the system options:** Enabling system options like system-wide configuration and credential helpers.
- Completing the Git Setup Wizard:** Final summary screen with a 'Finish' button.

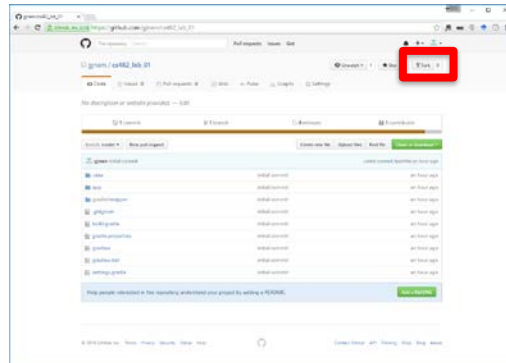
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Fork **GitHub** repository

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1. Create your GitHub account
2. Go to https://github.com/ginam/cs482_lab_01
3. Click **Fork**
4. You will find the repository has forked in your account

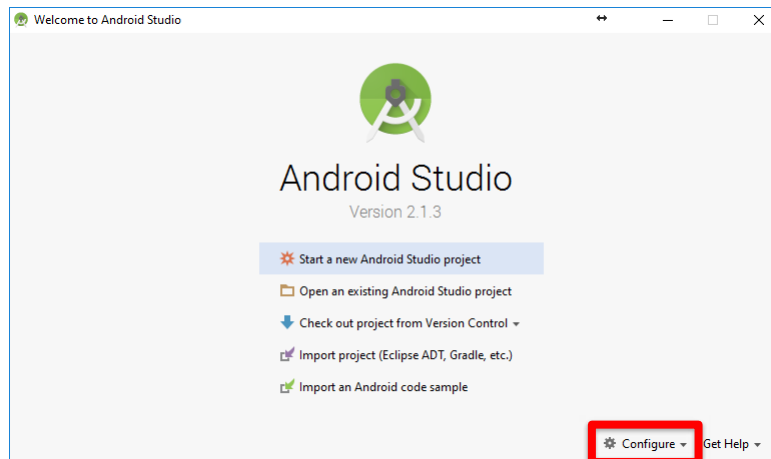


Checkout from **GitHub repository**

Checkout from GitHub

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- Configure -> Setting



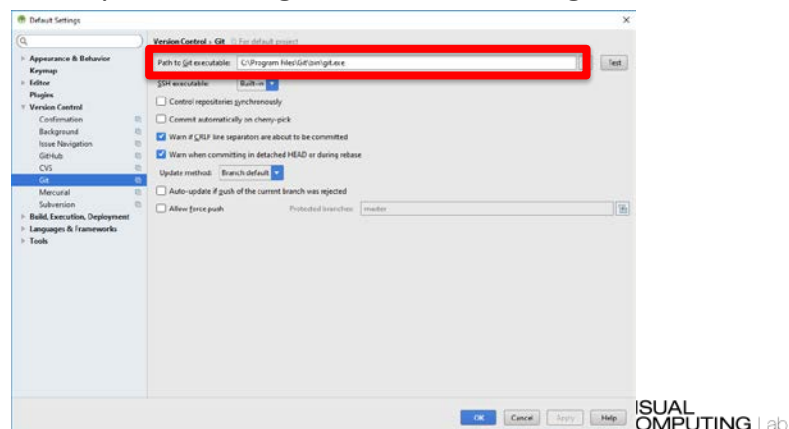
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Checkout from GitHub

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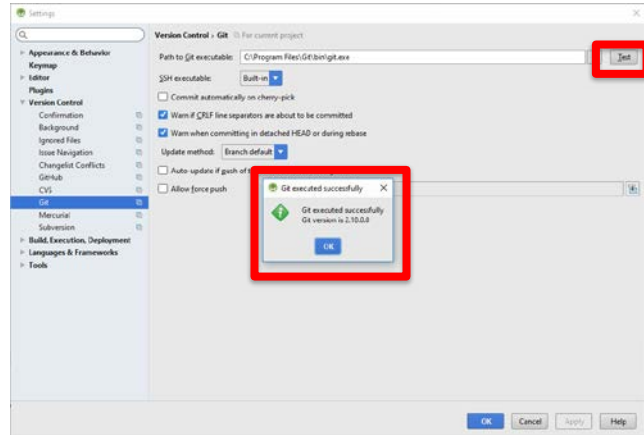
- Version Control -> Git
- Set "Path to Git executable"
 - For example, "C:\Program Files\Git\bin\git.exe"



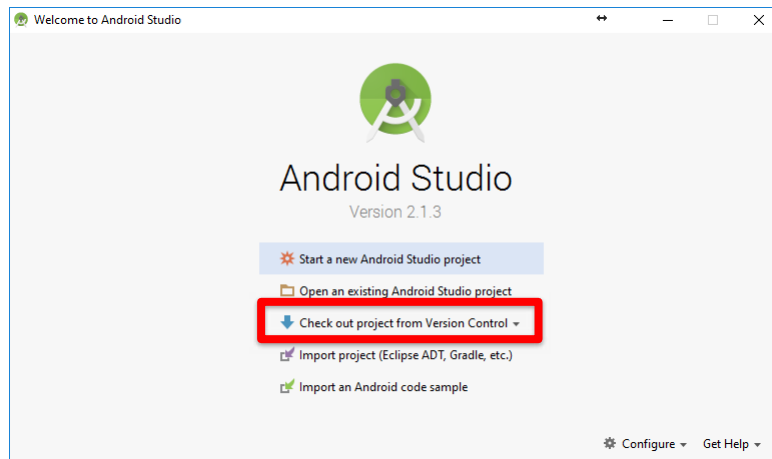
VISUAL COMPUTING Lab

Checkout from GitHub

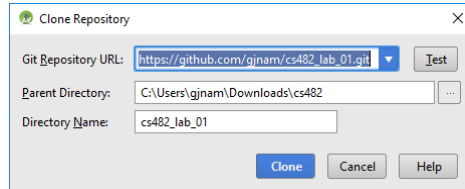
- Click 'Test'
- Any problem?



Checkout from GitHub

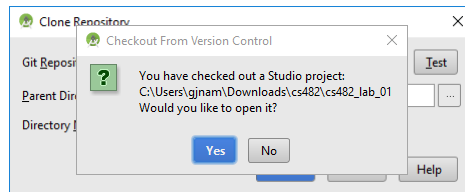


Checkout from GitHub



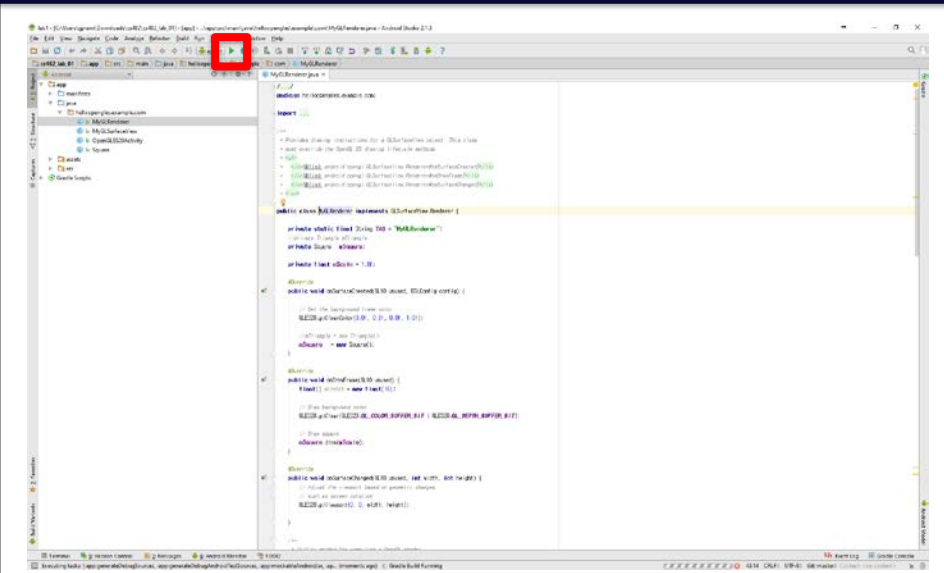
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Checkout from GitHub




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Checkout from GitHub

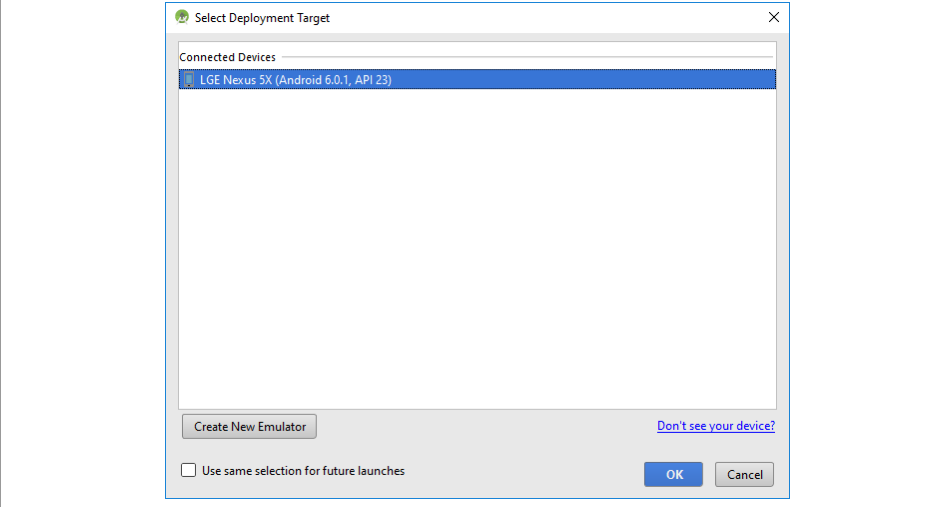


The screenshot shows an IDE window with a toolbar at the top. A red box highlights a button with a right-pointing arrow. The main editor area contains Java code for an Android application, including package declarations, imports, and class definitions.

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Checkout from GitHub



The screenshot shows a dialog box titled "Select Deployment Target". It has a section for "Connected Devices" with a list containing "LGE Nexus 5X (Android 6.0.1, API 23)". Below the list are buttons for "Create New Emulator" and "Don't see your device?". At the bottom, there is a checkbox for "Use same selection for future launches" and "OK" and "Cancel" buttons.

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Checkout from GitHub

- Done!



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