Becoming a Pro

IN Mobile Applications Testing

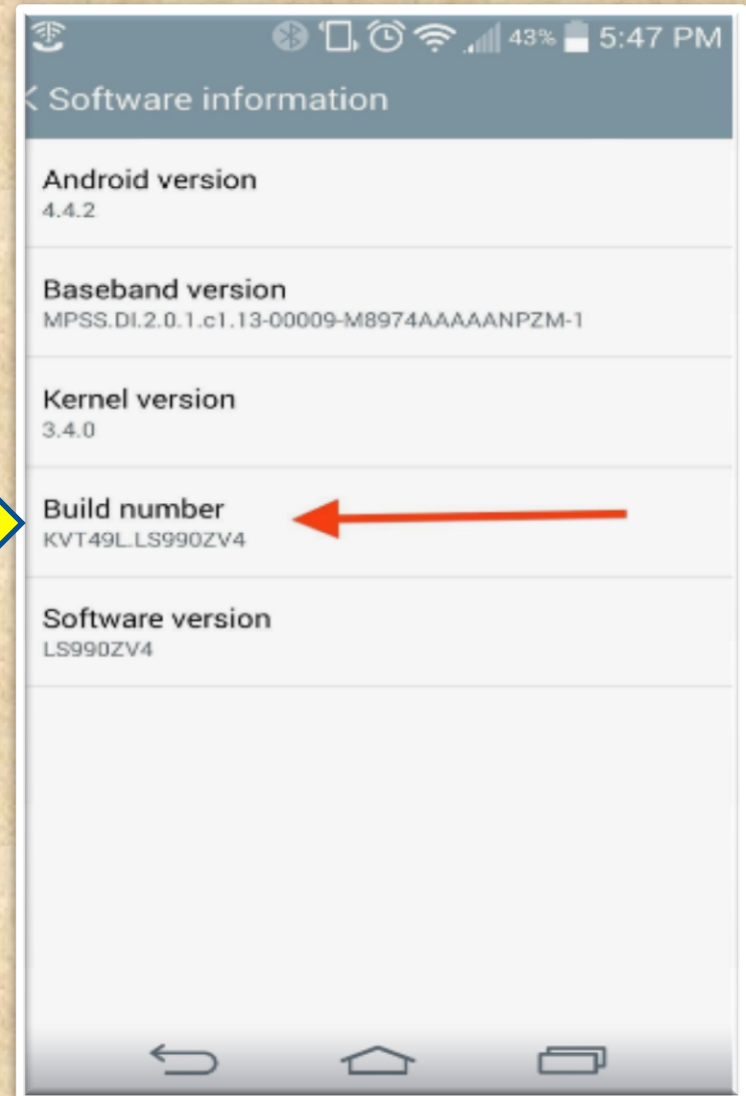## How to enable Developers Options ?

1. Enable **USB debugging** in the device system settings, under **Developer options**.

2. To make it visible, go to **Settings > About phone** and tap **Build number seven times.**

3. Return to the previous screen to find **Developer options** at the bottom.

⊛ ⬛ ◷ 📶 43% 🔋 5:47 PM

‹ Software information

Android version
4.4.2

Baseband version
MPSS.DI.2.0.1.c1.13-00009-M8974AAAAANPZM-1

Kernel version
3.4.0

Build number
KVT49L.LS990ZV4

Software version
LS990ZV4

Mobile *APPS*: *Distribution/Installation/Logs*

(contin.)How to enable Developers Options ?
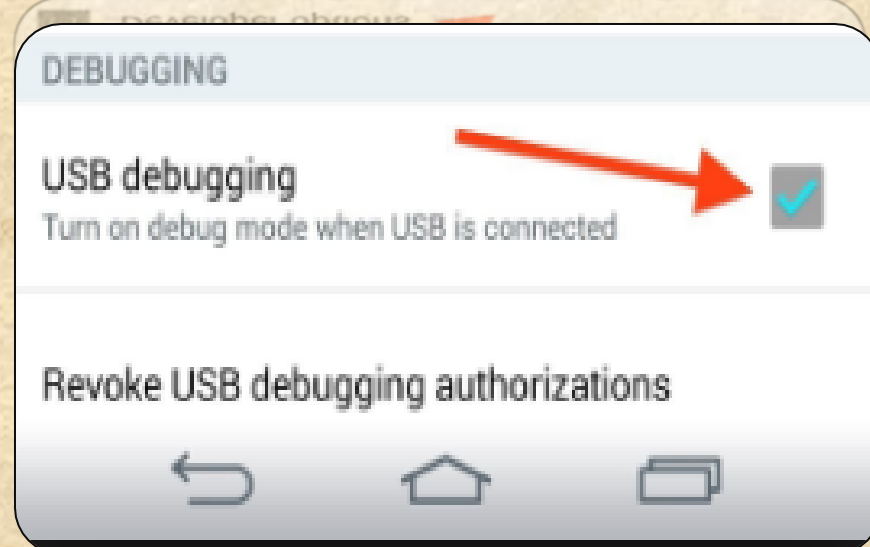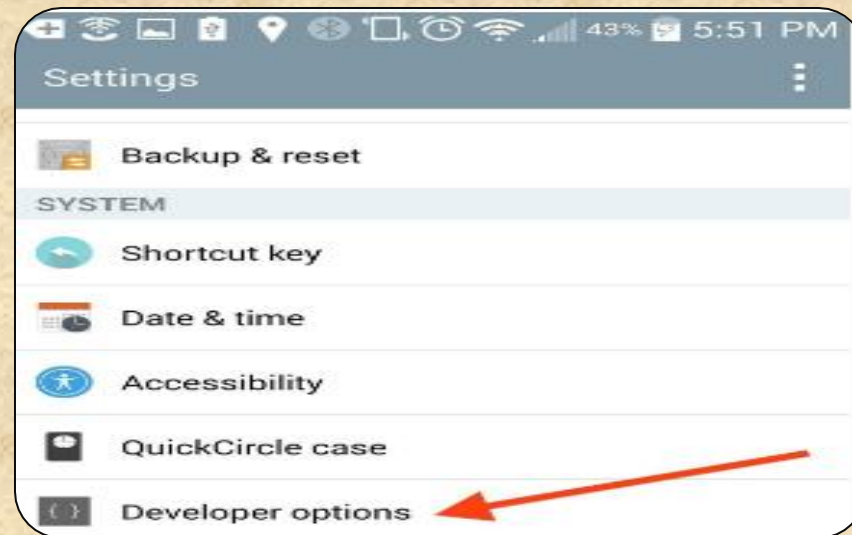
Open Developers Options

⬇️

Check the box **USB debugging**.

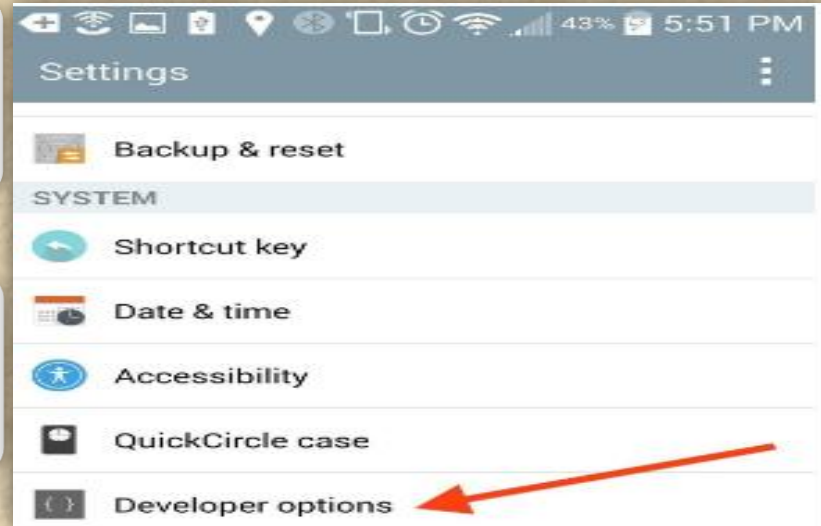This setting will allow you to connect your device to your computer, then issue **fastboot** commands via **ADB**.

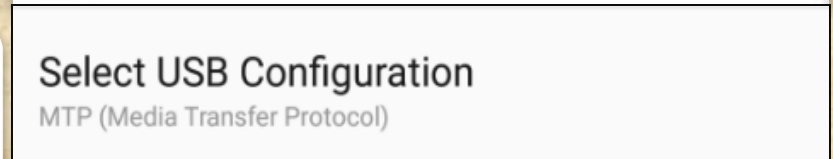This is useful for rooting, unlocking bootloaders, installing recoveries, and a ton more.

43% 5:51 PM

Settings

- Backup & reset

SYSTEM

- Shortcut key
- Date & time
- Accessibility
- QuickCircle case
- {} Developer options

DEBUGGING

USB debugging
Turn on debug mode when USB is connected

Revoke USB debugging authorizations

Mobile APPS: *Distribution/Installation/Logs*

Do I have a correct USB Configuration on my Device?

Open Developers Options

⬇

Tap on "Select USB Configuration" Menu
.

⬇

Make sure it's set to MPT
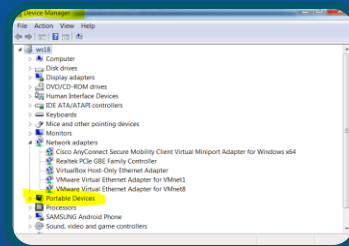
(Media Transfer Protocol)

⬇

Having a problem with your PC detecting your Device? This might be a solution.

Mobile *APPS*: *Distribution/Installation/Logs*

Windows : Make sure your Device is visible in Device Manager/Portable Devices

Find your Device Manager by either search or Right click the COMPUTER Icon On your Desktop/ Properties

Find you Device in Portable Devices. Make sure no conflict is shown (Yellow Mark)
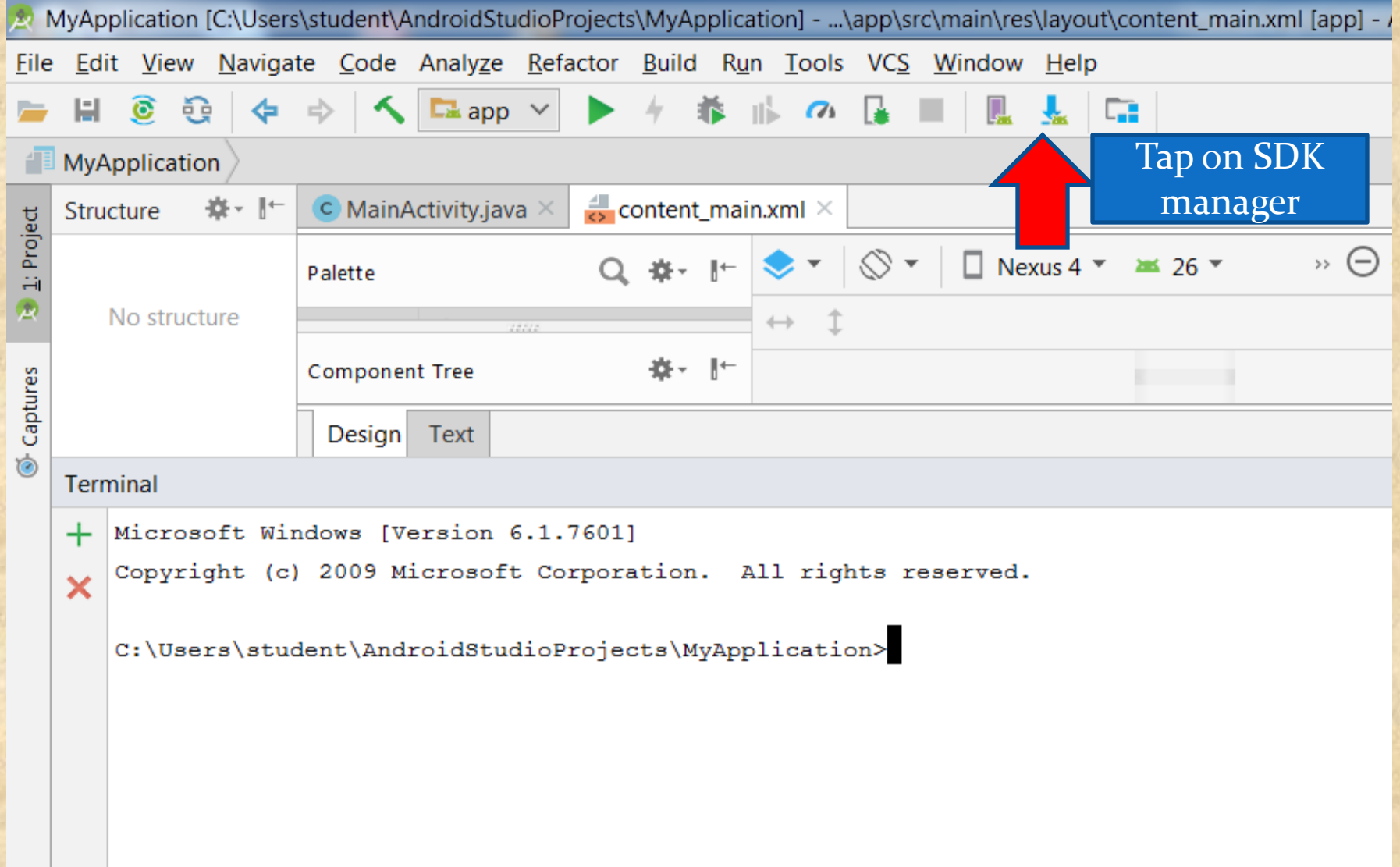

If there is a Conflict , usually message "Software is not successfully installed " appears :

- Update your USB Driver
- Find Phone Model. Search " Model #" USB Driver
- Download and install

Mobile *APPS: Distribution/Installation/Logs*

Windows :Default Path in Terminal

MyApplication [C:\Users\student\AndroidStudioProjects\MyApplication] - ...\app\src\main\res\layout\content_main.xml [app] -

File   Edit   View   Navigate   Code   Analyze   Refactor   Build   Run   Tools   VCS   Window   Help

app

MyApplication

Structure

No structure

MainActivity.java   content_main.xml

Palette

Component Tree

Design   Text

Nexus 4   26

Tap on SDK manager

Terminal

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.  All rights reserved.

C:\Users\student\AndroidStudioProjects\MyApplication>
```

Mobile APPS: *Distribution/Installation/Logs*

Windows : Copy /Paste the path into Notepad (your path could look different

Mobile APPS: Distribution/Installation/Logs

Windows: Copy /Paste the path into Notepad , add platform-tools , then copy to Terminal (space after cd)

Untitled - Notepad

File Edit Format View Help

D:\Android\sdk   then add <platform tools> ,

D:\Android\sdk\platform-tools

cd D:\Android\sdk\platform-tools (copy and paste to terminal)
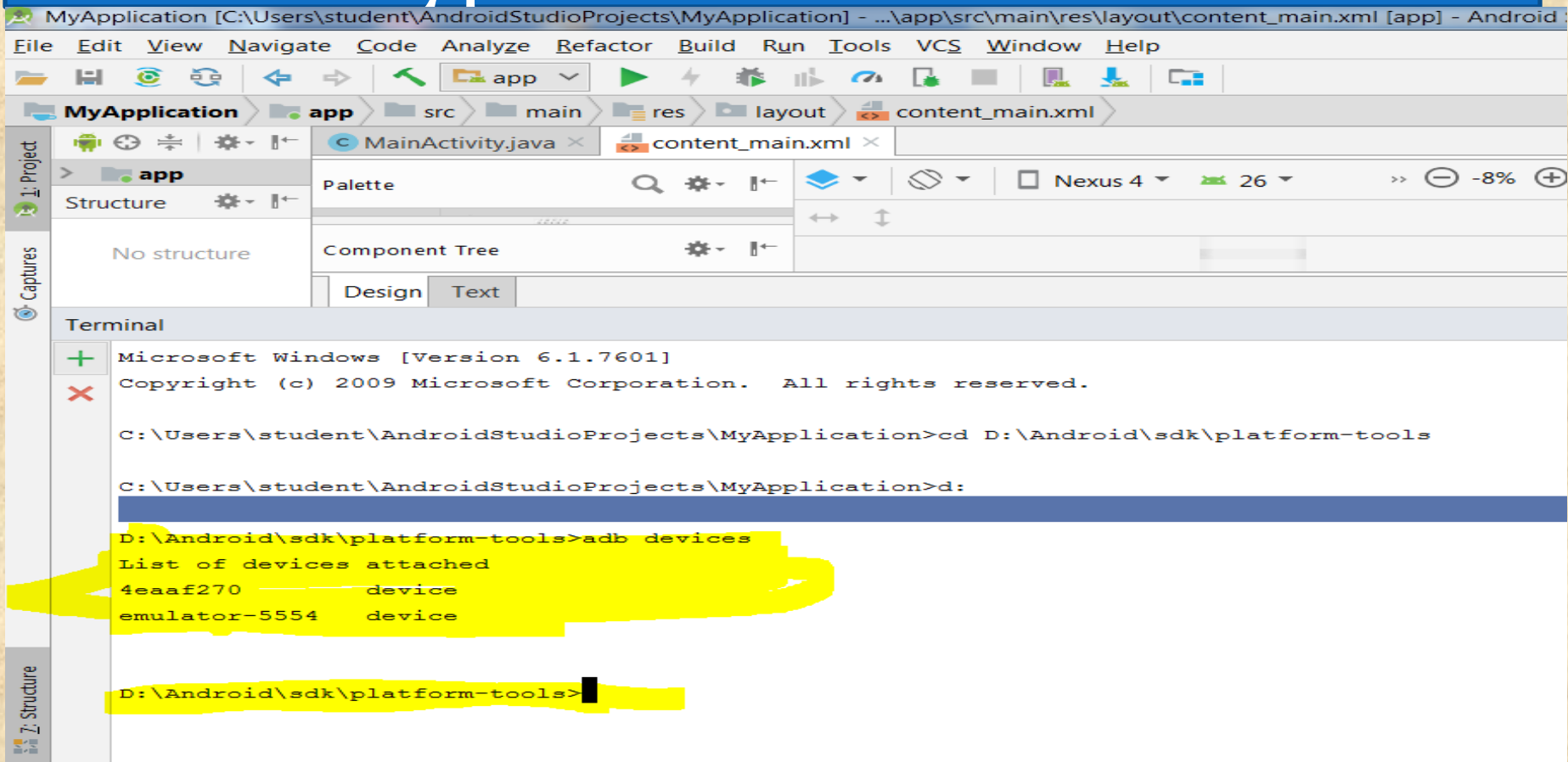
Press Enter

You default path will be changed

Windows: Your default patch should be set to ...\sdk\platform-tools

```
D:\Android\sdk\platform-tools>█
```

Type: adb devices

MyApplication [C:\Users\student\AndroidStudioProjects\MyApplication] - ...\app\src\main\res\layout\content_main.xml [app] - Android

File   Edit   View   Navigate   Code   Analyze   Refactor   Build   Run   Tools   VCS   Window   Help

MyApplication ⟩ app ⟩ src ⟩ main ⟩ res ⟩ layout ⟩ content_main.xml

app

ⓒ MainActivity.java ×   content_main.xml ×

Palette   Nexus 4 ▾   26 ▾   -8%

Structure

No structure

Component Tree

Design   Text

Terminal

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.  All rights reserved.

C:\Users\student\AndroidStudioProjects\MyApplication>cd D:\Android\sdk\platform-tools

C:\Users\student\AndroidStudioProjects\MyApplication>d:

D:\Android\sdk\platform-tools>adb devices
List of devices attached
4eaaf270            device
emulator-5554       device


D:\Android\sdk\platform-tools>█
```

Mobile APPS: Distribution/Installation/Logs

How to make your device "Authorized" in Android Studio ?
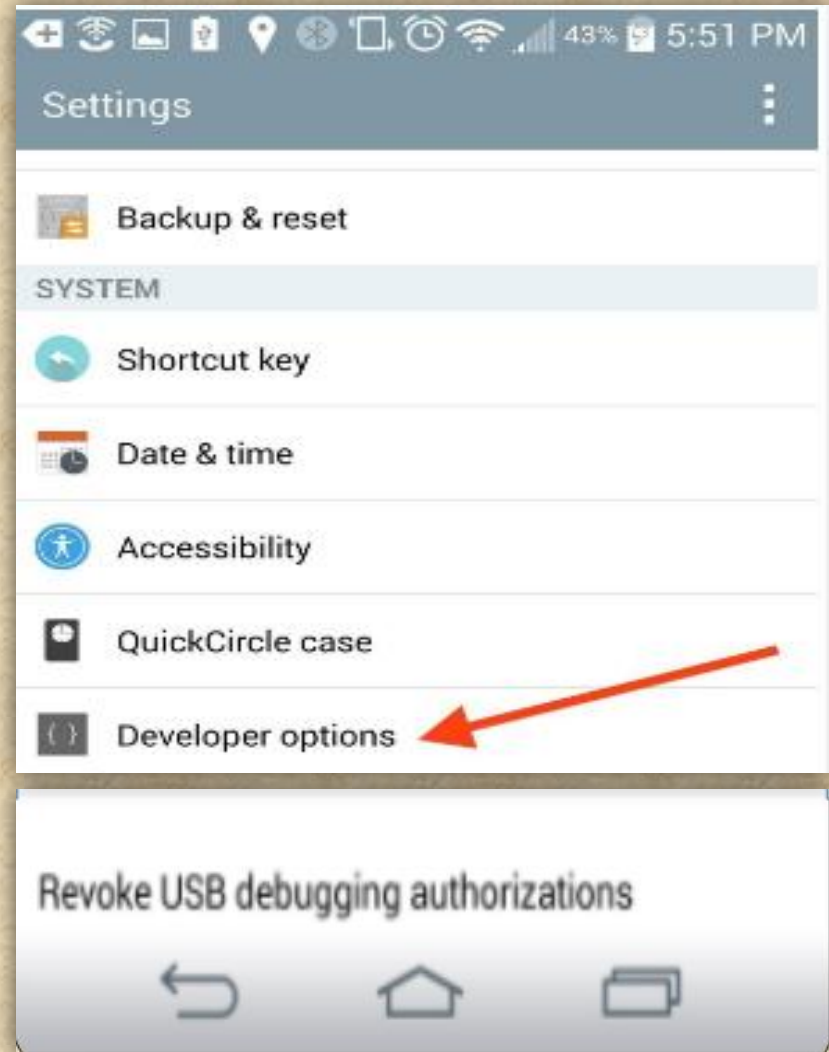
Open Developers Options

Tap on
"Revoke USB Debugging Authorization"

Tap OK when message pops up
"revoke access to USB debugging…"

Disconnect and then connect USB cable to your PC/Laptop

Sometime you will need to turn off and back ON Developers Options menu (don't forget to check USB debugging box again)
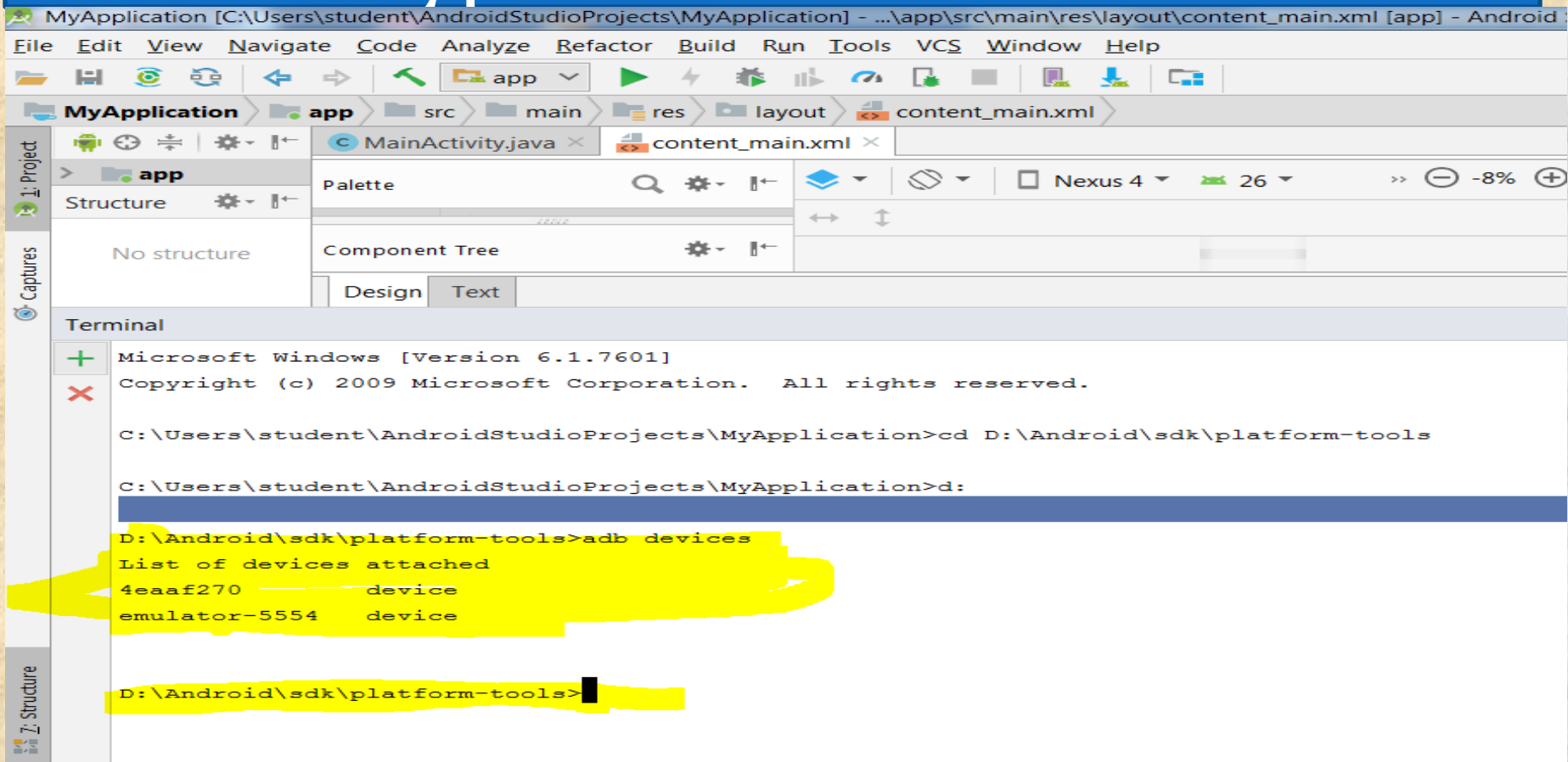

Settings

Backup & reset

SYSTEM

Shortcut key

Date & time

Accessibility

QuickCircle case

Developer options

Revoke USB debugging authorizations

Windows: Repeat AGAIN   - adb devices

```
D:\Android\sdk\platform-tools>█
```

Type: adb devices

MyApplication [C:\Users\student\AndroidStudioProjects\MyApplication] - ...\app\src\main\res\layout\content_main.xml [app] - Android

File   Edit   View   Navigate   Code   Analyze   Refactor   Build   Run   Tools   VCS   Window   Help

MyApplication ⟩ app ⟩ src ⟩ main ⟩ res ⟩ layout ⟩ content_main.xml

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C:\Users\student\AndroidStudioProjects\MyApplication>d:

D:\Android\sdk\platform-tools>adb devices
List of devices attached
4eaaf270          device
emulator-5554     device


D:\Android\sdk\platform-tools>█
```