**Session 8 :ANDROID STUDIO today :)**

**CONNECT YOUR Devices to the PC/LAPTOP via USB**

**1. Make sure Developers Options MENU is enabled**

**( if not go to SettingsAbout DeviceTap BUILD # 7 times**

**Go back one screen, find Developers Options Menu and go to # 2**

**2. Make sure USB DEBUGING BOX is CHECKED**

**3. OPEN ANDROID STUDIO**

**4. check your devices if “TRUST THIS COMPUTER” notification appears -CONFIRM YES**

**5. Open Emulator**

**6. type : adb devices**

**7. if you have real device , then you will see both : real and emulator**

How to create directory on your Real Device

Note: some devices will not let you create dir in Root

adb -d shell

ls

mkdir Natalia

1. Create sub-directory in sdcard  ( sdcard/Natalia)

adb -d shell

ls

cd sdcard

mkdir Natalia

exit shell (type exit)

2. Copy fish.txt to sdcard/Natalia

adb -d push C:/a/fish.txt /sdcard/Natalia/

adb -d push ~/Desktop/fish.txt /sdcard/Natalia/

3. Find fish.txt using ls

adb -d shell

ls

cd sdcard

cd Natalia

exit

How to remove sub-

adb -d shell

ls

cd sdcard

cd Natalia

rmdir –r Natalia

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How to shut down and remove your emulator

 adb emu kill

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type adb devices

should see real device only

No more emulator-5554 ( this means no more -d  - no separation in the command line )

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Reboot the Real Device

adb reboot

**Dumpsys Commands**

**dumpsys** *is a tool that runs on Android devices and provides information about system services.*

*Get diagnostic output for all system services running on a connected device.*

 *(Please note : Some of the services might not work on your device )*

For a complete list of system services that you can use with **dumpsys**, use the following command:

**adb shell dumpsys –l ( select one of the services)**

**adb shell dumpsys <service>**

**or**

**adb shell**

**dumpsys <service>**

**xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx**

Test *touchscreens or built-in keyboards*:

**adb shell dumpsys input**

**xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx**

Test APP Packages .

Get all info about your app *Want to check all the info about a certain application ? Version name/code, first install time, last update time, requested permissions, etc.*

***adb shell dumpsys package com.united.mobile.android***

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*Another powerful option from*dumpsys*is the activity, where you can access all the related information about Activity Manager, activities, providers, services, broadcasts, recent activities, etc.*

**adb shell dumpsys activity top**

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*Want to know all the stack, recent tasks , active services or pending intents ?*

**adb shell dumpsys activity**

**xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx**

[**Battery information tasks**](https://www.vogella.com/tutorials/AndroidCommandLine/article.html)

***Let’s check our battery***

adb shell dumpsys **battery**

*This command line will give you a complete info about your battery.*

***OUTPUT for battery :***

Current Battery Service state:

 AC powered: false

 USB powered: true

 Wireless powered: false

 Max charging current: 500000

 Max charging voltage: 5000000

 Charge counter: 1938174

 status: 2

 health: 2

 present: true

 level: 65

 scale: 100

 voltage: 4016

 temperature: 274

 technology: Li-ion

***To save battery info into a log file ;***

 adb shell dumpsys **battery > C:\a\battery.txt**

***We can run a command line to extract only info that we need. In this example : temperature***

2 adb shell

/$ dumpsys battery | grep ***temperature*** (extract data . In our case its “temperature”)

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**adb shell dumpsys batterystats**

If you want to see how your APP is consuming battery resources use this command line

**adb shell dumpsys batterystats --charged com.united.mobile.android**

***or to send this information into a text file***

**adb shell dumpsys batterystats --charged com.united.mobile.android >C:/a/23.txt**

**MAC**

**adb shell dumpsys batterystats --charged com.united.mobile.android >~/Desktop/23.txt**

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