**Session 10 :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**

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How to get a comprehensive logs from your Device ?

Clean up buffer

adb –d logcat -c

**adb -d logcat -v threadtime >C:\a\logcat7.log**

**MAC**

**adb -d logcat -v threadtime > ~/Desktop/logcat7.log**

**12345678910-20-30-40-50**

**From app**

Clean up buffer

adb –d logcat -c

**adb -d logcat -v threadtime >C:\a\logcat8.log | adb -d shell grep com.colabus**

**MAC**

**adb -d logcat -v threadtime > ~/Desktop/logcat8.log | adb -d shell grep com.colabus**

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How to create sub-directory

adb –d shell

cd sdcard

mkdir Natalia

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

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**How to Remove sub-directory with files ?**

adb –d shell

cd sdcard

rm -r Natalia

( -r will remove the content ( files) from directory Natalia. Otherwise it will give you a message “directory not empty”)

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Diagnostics for Services ( DUMPSYS <OPTION>)

adb –d shell

dumpsys <option>

Let’s start from available list of options

adb -d shell dumpsys –l

**How to check user**

adb –d shell dumpsys users

**How to check battery**

adb –d shell dumpsys battery

how to send battery info into the text file

adb –d shell dumpsys battery >c:\a\battery.txt

Batterytstats

adb –d shell dumpsys batterystats --reset

After that start interacting with your application performing the main tasks and if you can let your application run in the background for some time to get more reliable data. When you feel you have collected enough data just pull the battery stats data. Type the following command;

*In devices with ≥ Android 7.0:*

adb -d bugreport > C:\a\bugreport4.zip

*In devices with ≤ Android 6.0*

adb -d bugreport > C:\a\bugreport4.txt

After pulling the battery data you can go to [Battery Historian](https://bathist.ef.lc/) , <https://bathist.ef.lc/> upload the zip|txt file and then you can visualize system and application level events on a timeline with panning and zooming functionality; see various aggregated statistics since the device was last fully charged; select an application and inspect the metrics that impact battery specific to the chosen application.



**e.g.** of a Battery Historian chart

**How to check graphics on the application**

Windows :

adb -d shell dumpsys gfxinfo | findstr com.colabus >C:\a\gfx2.txt

adb -d shell dumpsys gfxinfo | adb -d shell grep com.colabus >C:\a\gfx2.txt

MAC

adb -d shell dumpsys gfxinfo > ~/Desktop/gfx1.txt | adb -d shell grep com.colabus

**How to check APP Package**

adb -d shell dumpsys package com.colabus

**Presentation Android Hidden Treasures**

**1. Reboot your Device**

This command reboots your device in normal mode. You can use it when you’ve flashed something on your device and wish to reboot.

**adb reboot**

**2. Reboot into Recovery**

If you wish to reboot your device into recovery mode, say for flashing a custom ROM, you can issue this command. First, your device will turn OFF, and then it will go directly into recovery mode. If you have flashed a custom recovery on your device, you will be taken to the same instead of the stock recovery.

**adb reboot recovery**

**3. Reboot into Bootloader Mode**

Use this command to boot your device into bootloader mode. That is where you can unlock your bootloader, reboot into fastboot and recovery mode, and do some other tasks.

**adb reboot bootloader**

**4. Reboot into Fastboot**

Instead of first going into bootloader and then choosing fastboot, you can issue this command, and it will take your device directly to fastboot mode. The fastboot mode helps you flash custom recoveries as well as custom ROMs on your device.

**adb reboot fastboot**

**Sabina question**

**adb -d shell**

**cd bugreports**

**rm \*.\***