**Session 9**

**Enable Developers Options**

**Check USB Debugging Box**

**Open Android Studio**

**Set the path to SDK/Platform Tools**

**Connect your Device**

**Run Emulator**

**verify that both devices are present by typing : adb devices**

**it’s recommended to clean up buffer before running each set of logs .**

adb logcat -c

1. From the device itself:  ( to stop madness Ctrl+C)

adb -d logcat   ( it's going to run ALL logs possible )

**adb –d logcat \*:E  ( for error logs only )**

adb -d logcat \*:F  ( for fatal logs only )

adb -d logcat \*:I  ( for information logs only )

adb -d logcat \*:V  ( for verbose logs only )

adb -d logcat \*:D  ( for debugging logs only )

adb -d logcat \*:W  ( for warning logs only )

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Collect logs from previously run command and place it in a TEXT FILE .

adb -d logcat \*E -d > online.txt ( to dump the previous log into text file. It will collect the logs from buffer)

clean up buffer : adb –d logcat -c

To simultaneously collect logs from Device and place it into \*.txt

adb -d logcat \*:E > online2.txt

clean up buffer : adb –d logcat -c

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you will need a LOMOTIF or United package

adb –d shell

pm list packages | grep lomotif (or united)

**<com.united.mobile.android .**

Xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx>

can use United or LOMOTIF in this exercise. I will use another app)

adb -d logcat \*:E >online3.txt | adb -d shell grep com.united.mobile.android

 ( OR com.lomotif.android)

type CTRL+C to stop collecting logs and go check \*.txt

You are welcome to give any name to .txt file

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Another valuable command line to help developers debug (example shown from a real device):

clean up buffer : adb –d logcat -c

adb –d logcat –v threadtime > C:/a/debug1.log

1. Perform any actions on your Android device.
2. To stop the adb process, press Ctrl + C on the command prompt window.
3. The debug data can be viewed from c:\android-debug.log file.

**Collecting threadtime logs from an app ( example Real Device)**

**adb –d logcat –c ( clean up buffer) before executing the following command.**

**adb –d logcat –v threadtime >debug4.log | adb –d shell grep com.united.mobile.android**

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Monkey Test is a TOOL in ANDROID Studio to perform stress test for UI functionality

5000 is a number of "hits" or in other words, “injections” your app is going to receive. You may change this number to any.

adb -d shell monkey -p com.united.mobile.android 5000 ( from Terminal )

If you want to collect logs from Monkey test, run shell **simultaneously** with this command line

adb -d logcat \*:E >monkey.txt | adb -d shell grep “com.united.mobile.android” ( from cmd shell )

Reboot your device ( or emulator after Monkey test)

adb –d reboot

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It’s time to get familiar with commands lines to copy Files between PC/Laptop and Device

Copy **Fish.txt** and **Bear.txt** from your Laptop/PC to your Mobile Device:

1. Create a directory in C Drive. Name it a

C:/a

2. Open Notepad

Type FISH

Save it as fish.txt

3. Open another Notepad

Type Bear

Save it as bear.txt (in C:/a )

4. Create directory on your C drive and name it b

C:/b

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9. Check directories on your Real device (let’s practice and see what’s available. You may do the same with emulator, use –e if so )

adb -d shell

ls

exit

( usually the most  common folder is sdcard , just like temp directory on PC )

adb -d push C:/a/fish.txt /sdcard/    ( space after .txt)

check if fish.txt is in sdcard

adb -d shell

ls

cd sdcard

ls  ( to check content )

check for file

type exit to be out of shell

10. now do the same #9 task for bear.txt

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How to copy bear.txt from your Device to your Laptop/PC to directory C:/b

adb -d pull /sdcard/bear.txt C:/b/ (also space after .txt and C:/b/)

check Directory C:/b/ if bear.txt is there

Repeat for fish.txt

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How to make a screenshot and transfer this file to directory C:/a

1. Open some app , so you can distinguish the screenshot

adb -d shell screencap -p /sdcard/vasya.png   ( or any other image format like .jpg, jpeg, bmp, etc )

2. check if vasya.png    is in sdcard

adb –d shell

cd sdcard

ls (to check content)

check for file

exit

3. copy vasya.png    to C:/a/

adb -d pull /sdcard/vasya.png C:/a/

check Directory C:/a/ if vasya.png  is there