

Points: 10

#	Task	Check
1	Connect your phone to your laptop over USB and test if the ADB is working by issuing this command from a command line tool: • adb devices -1	1
2	From the command line interface, issue the following command to get information on the network interfaces on your phone: • adb shell ifconfig • Try the other way of running an ADB shell command, i.e. issue adb shell to get inside the phone's shell, and then enter ifconfig.	1
3	Notice the output carefully. If WiFi is enabled, you will see an interface called the wlan0. Notice its IP address, TX, and RX packets. wlan0	1
4	Using Android studio, create an App that executes the ifconfig command using the Runtime and Process classes. Note that you have to give your app the android.permission.INTERNET permission in the AndroidManifest.xml.	2
5	Modify you app so that it parses the output of ifconfig and shows three information (IP address, TX, and RX packets) in three TextView.	3
6	Modify the app further so that we get real-time updates on TX and RX packets. You may have to use a thread to periodically (e.g. every second or two) issue ifconfig command, parse it, and update the text views.	2