

Debug Tools

Upon completion of this module, a student will be able to

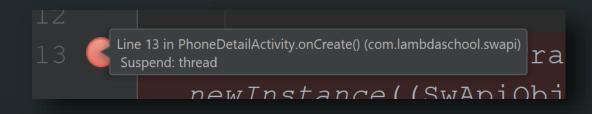
- set and manage breakpoints in code
- debug exceptions using an exception breakpoint
- use the Android Studio debugger's controls to move through code being debugged
- use Android Studio's variables view to inspect the current value of variables
- debug a physical device wirelessly on a local network
- use watchers to show information without modifying source code





set and manage breakpoints in code

Setting a Breakpoint

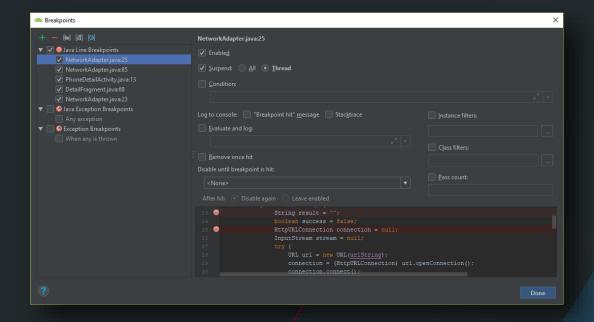


- Pauses code execution
- Opens up other debug tools at that point



Managing Breakpoints

- Ctrl + Shift + F8
- Manage All breakpoints in project

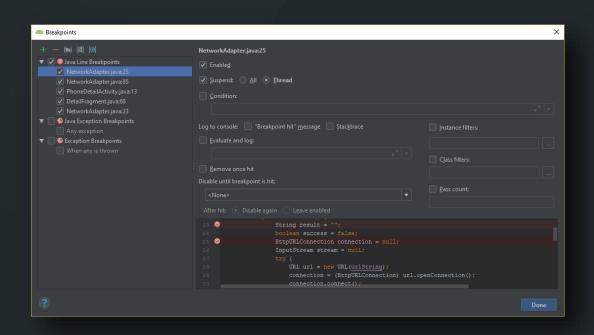






debug exceptions using an exception breakpoint

Exception Breakpoint



Automatically break on exceptions

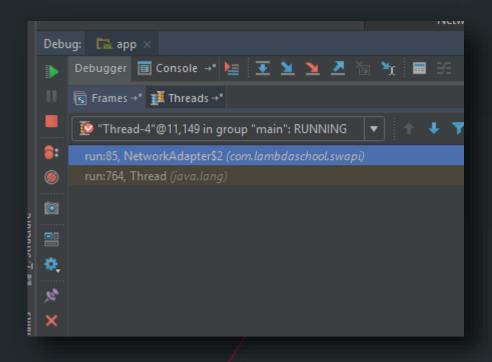




use the Android Studio debugger's controls to move through code being debugged

Debugger Controls

- Control the movement of the paused point
- Step into or out of methods
- Execute to cursor

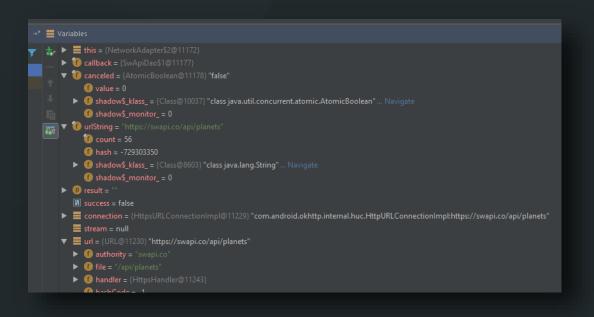






use Android Studio's variables view to inspect the current value of variables

Variables View



Lists prominent variables in current scope





use watchers to show information without modifying source code

Watches

- Add custom variables or expressions to variables view
- Executes that expression at that point of execution





debug a physical device wirelessly on a local network

Wireless Debugging

C:\Users\Chance\Documents\Temp\SWAPI>"C:\Users\Chance\AppData\Local\Android\Sdk\platform-tools\adb.exe" tcpip 5555 restarting in TCP mode port: 5555

C:\Users\Chance\Documents\Temp\SWAPI>"C:\Users\Chance\AppData\Local\Android\Sdk\platform-tools\adb.exe" connect 192.168.1.3:5555 connected to 192.168.1.3:5555

C:\Users\Chance\Documents\Temp\SWAPI>"C:\Users\Chance\AppData\Local\Android\Sdk\platform-tools\adb.exe" -s 192.168.1.3:5555 us restarting in USB mode

- Connect device with USB
- adb tcpip 5555 // enables wireless debugging
- adb ip_address:5555 // connects to device
- adb –s ip_address:5555 // disconnects and disables wireless debugging

