# **Debugging in Visual Studio Code for browser and emulator/device**

While searching on net I found very good article to replicate same functionality.

<http://www.damirscorner.com/blog/posts/20161122-DebuggingIonic2AppsInChromeFromVisualStudioCode.html>

You just need to add “Debugger for chrome extension” in visual studio code and follow below mentioned steps (same has been mentioned in above article as well).

1. You need to change content of .vscode\launch.json as per below.

"configurations": [

{ "name": "Launch in Chrome",

"type": "chrome",

"request": "launch",

"url": "http://localhost:8100",

"sourceMaps": true,

"webRoot": "${workspaceRoot}/www"

}

]

2. Then you need to start app with normal ionic command “ionic serve” within integrated terminal of visual studio code. Open the integrated *Terminal* window with Ctrl+` and type ionic serve -b (the -b switch will prevent the page from opening in your default browser).

3. Once app is opened in browser, press F5 in visual studio code and it will attach debugger from chrome instance.

Imp Note-- You shouldn't have any other instances of Chrome running when you do that or the debugger will fail to attach to it.

4. Put a breakpoint in ts files and code will stop at that point.

Great, this way we can debug code in visual studio code editor instead of doing same in browser.

**What to do if I need to debug code on emulator or device in visual studio code (which was actual intent of this article)**.

I got again a link from same author which saved my day. J

<http://www.damirscorner.com/blog/posts/20170113-DebugIonic2AppsInVsEmulatorForAndroid.html>

add “Cordova Tool” extension to visual studio code.

Simply change content launch.json with below.

"configurations": [

{

"name": "Attach to running android on device",

"type": "cordova",

"request": "attach",

"platform": "android",

"target": "device",

"sourceMaps": true,

"cwd": "${workspaceRoot}"

}

]

Deploy your app using command “ ionic cordova run”, select android.

It will deploy to open emulator. Once app is deployed on emulator, press F5 in visual studio code which will attach debugger to emulator app.

I hope this will help atleast few people working on Ionic who are looking to debug app in browser and emulator.