NIOS II Starting Guide

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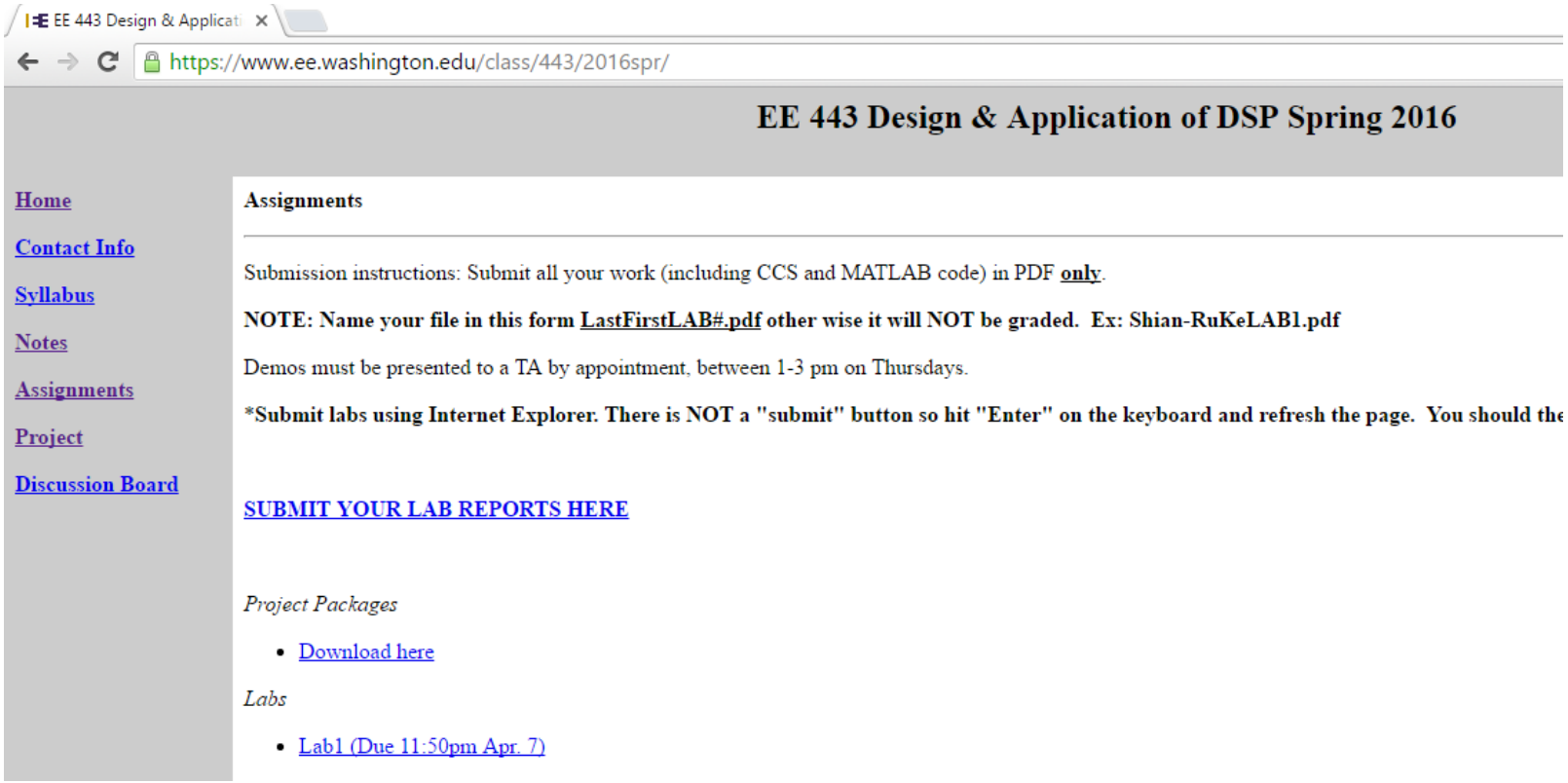
3/30/2016

Start from the technical package

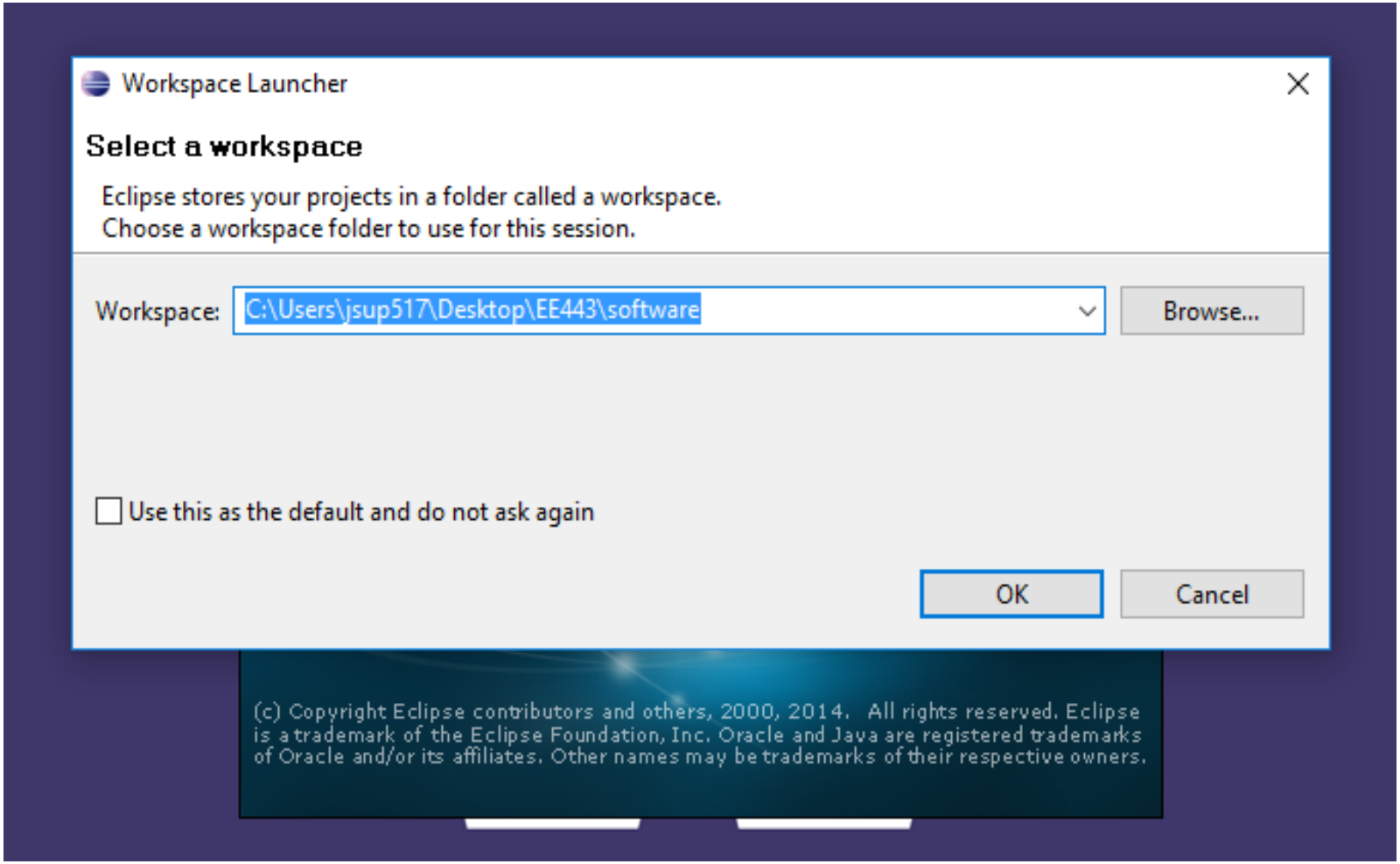
- Download the technical package (EE443.zip) from the class website
  → You need EE account in addition to your UW ID



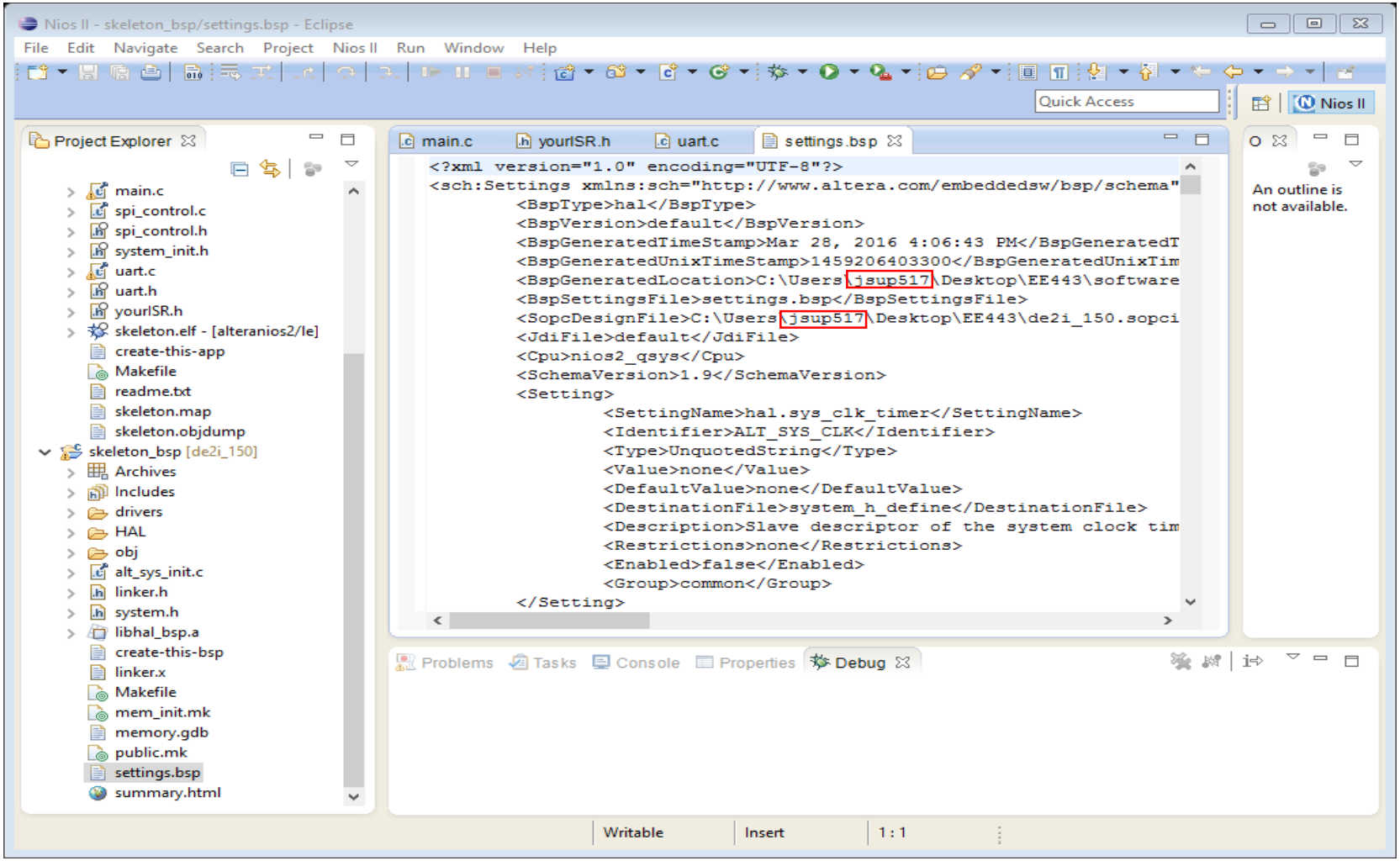
Extract the EE443.zip on the Desktop

Start the NIOS II

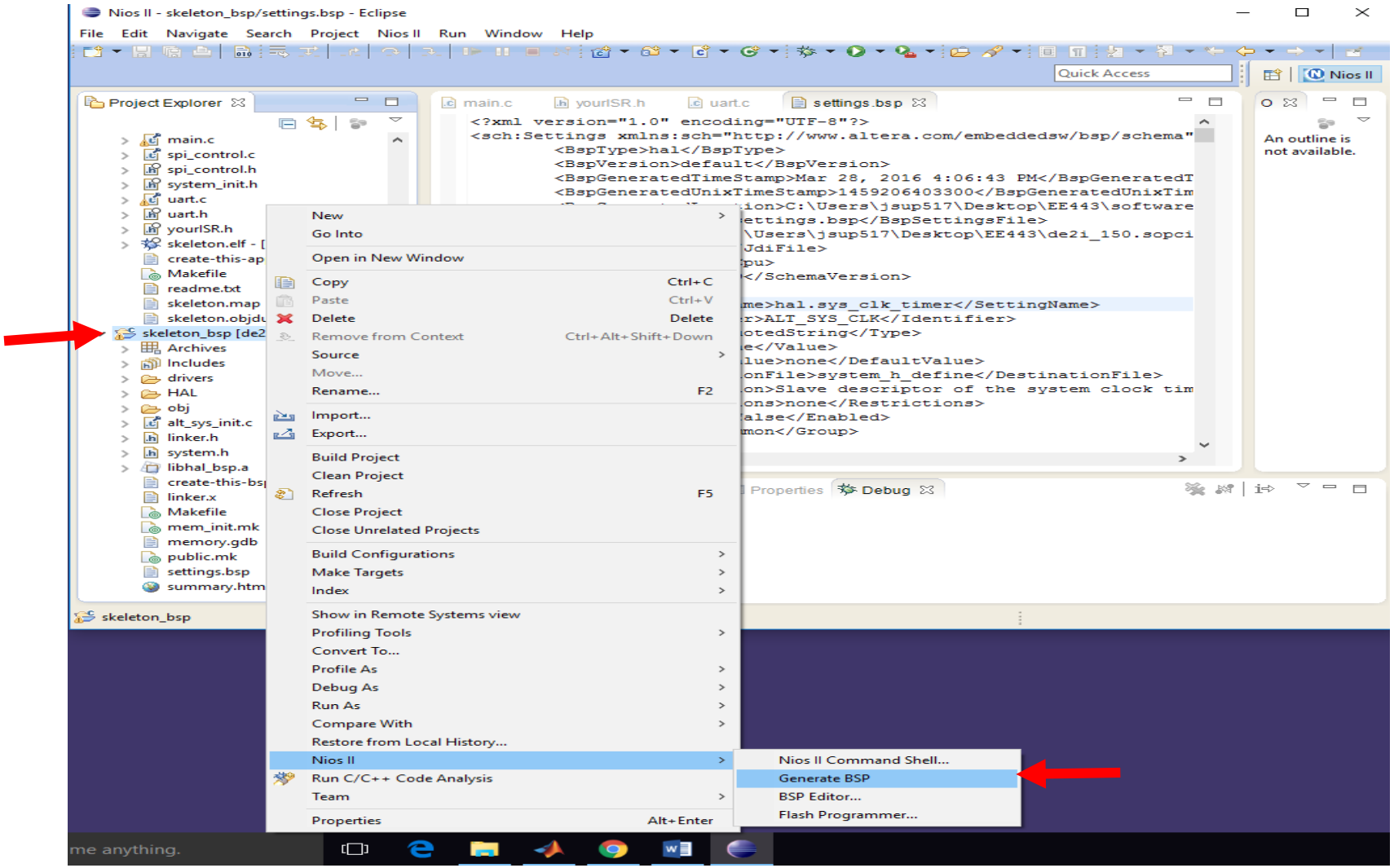
Selection the workspace as C:\Users\NetID\Desktop\EE443\software



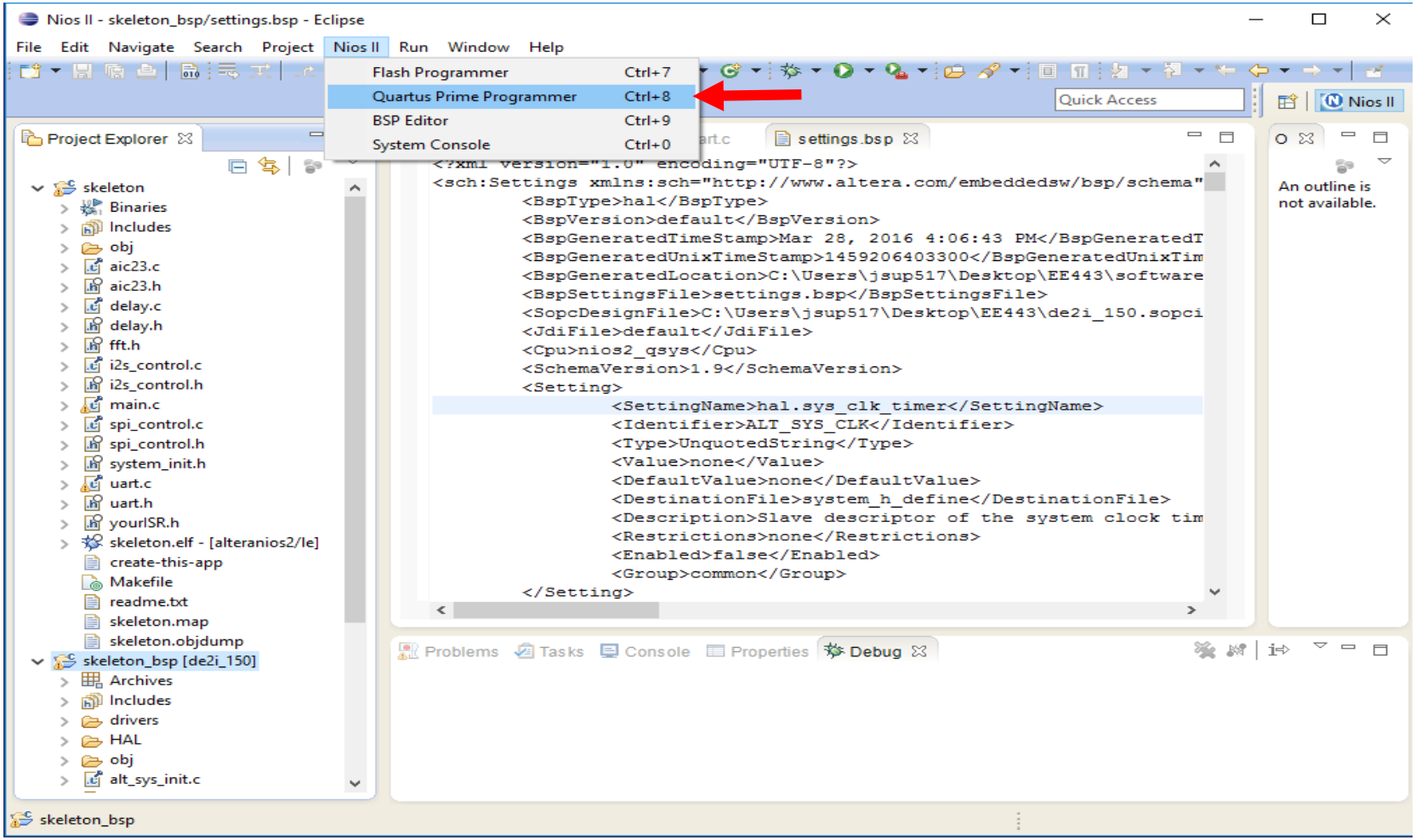
Change the setting.bsp file, change the path of the files



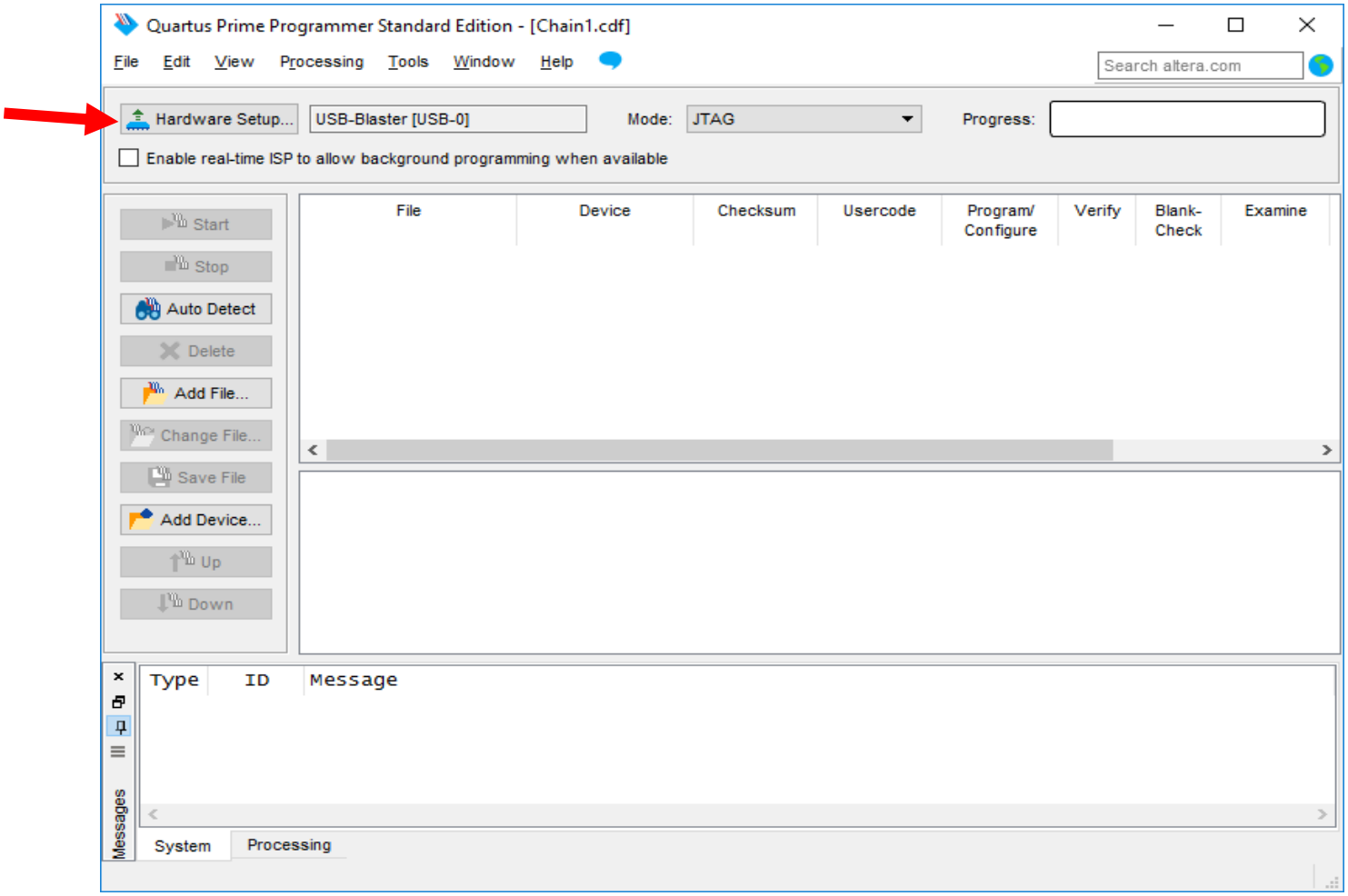
Right click on the skeleton_bsp, then go to Nios II -> Generate BSP



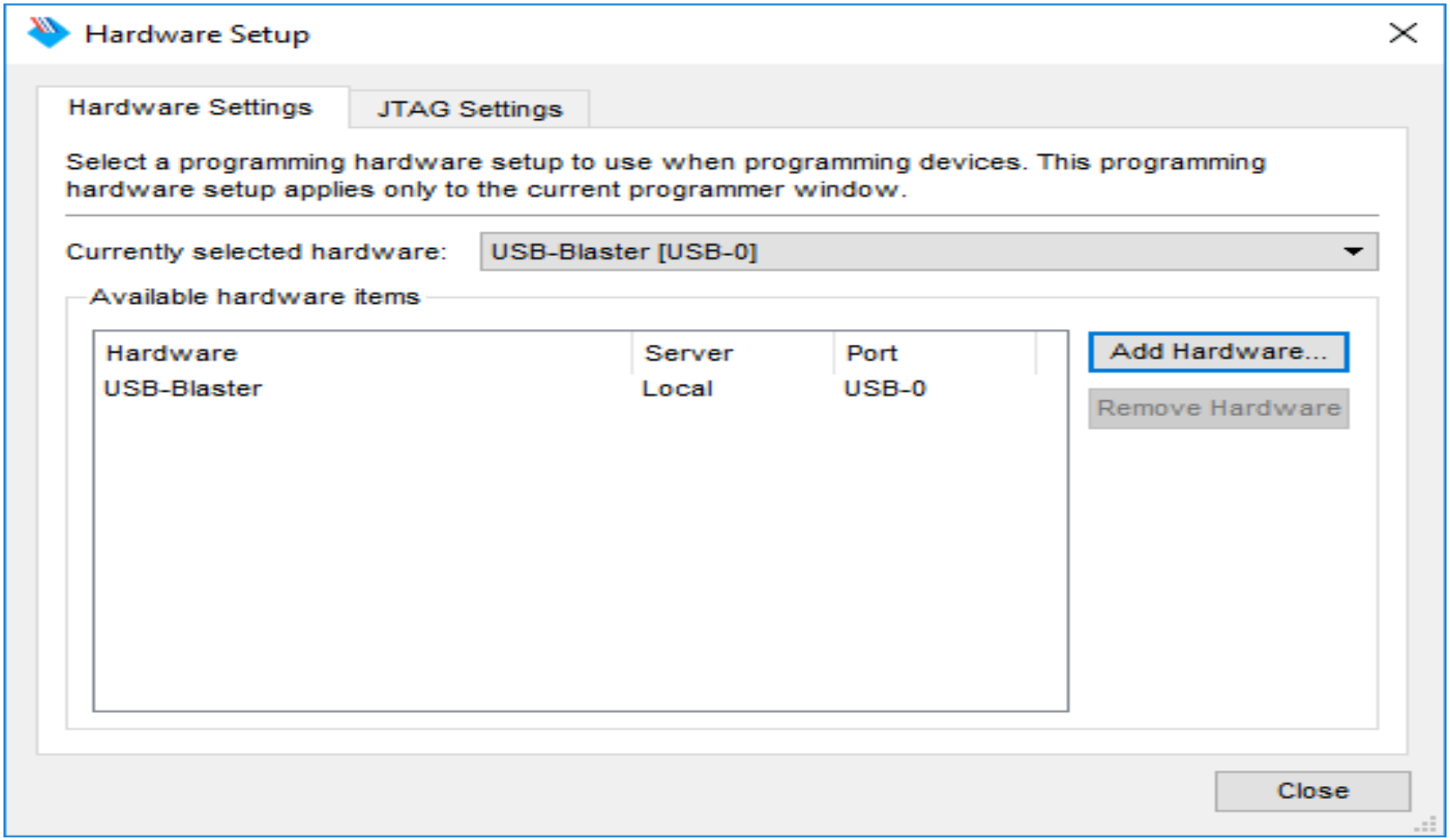
Start the Quartus Programmer. Nios II->Quartus Prime Programmer



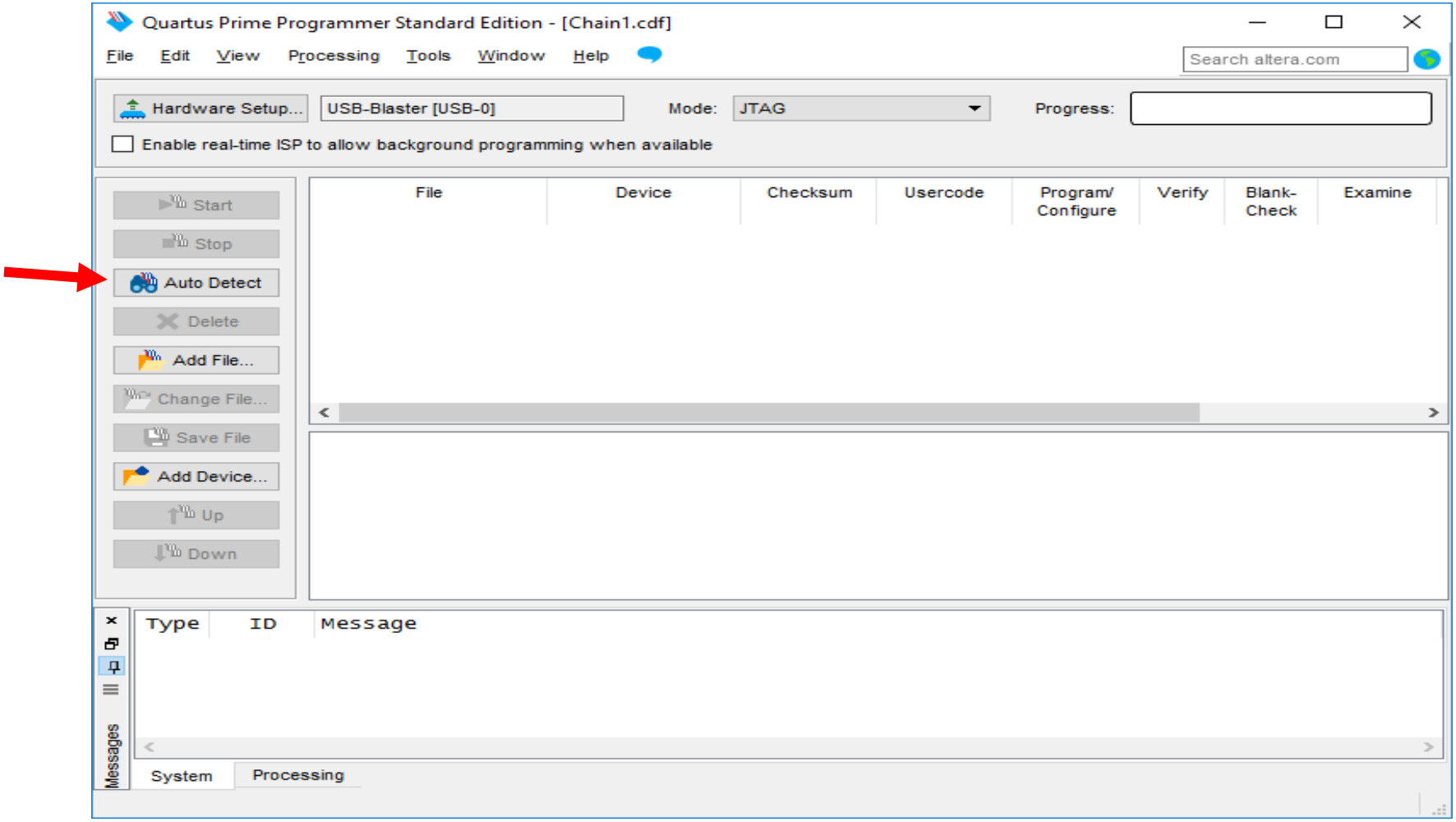
Quartus Prime Programmer



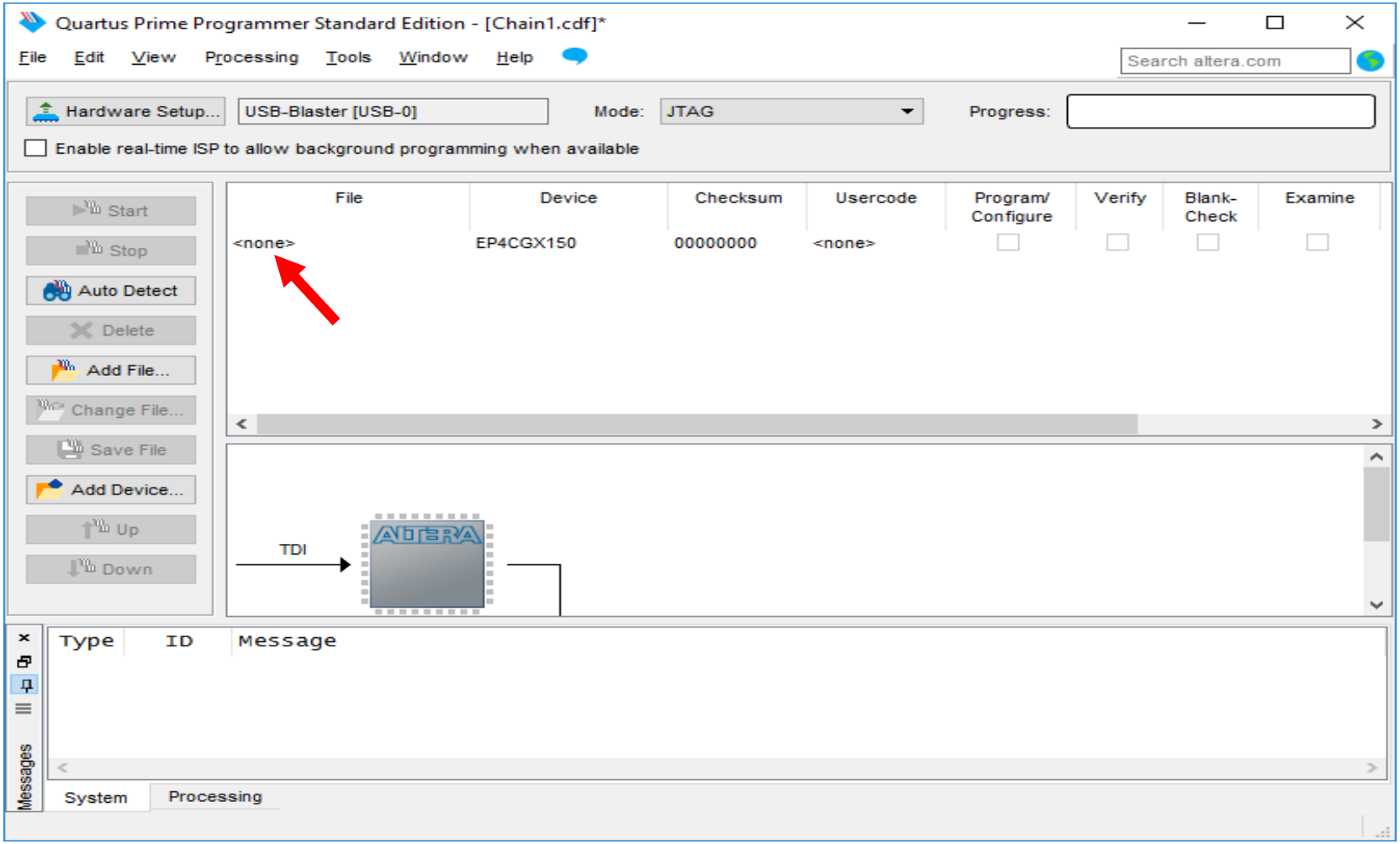
Click on the Hardware Setup, and select the USB-Blaster



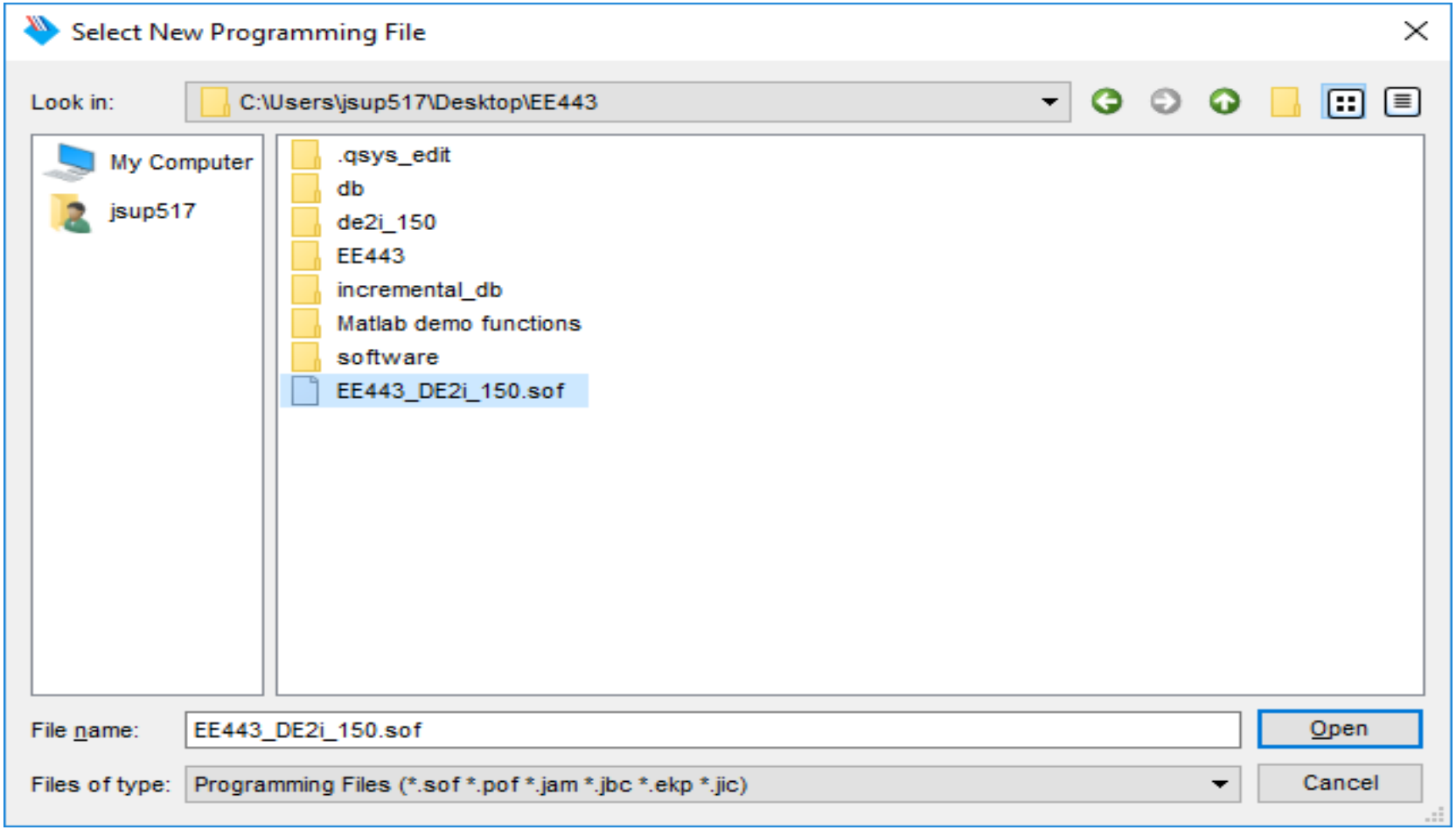
Click on the Auto Detect



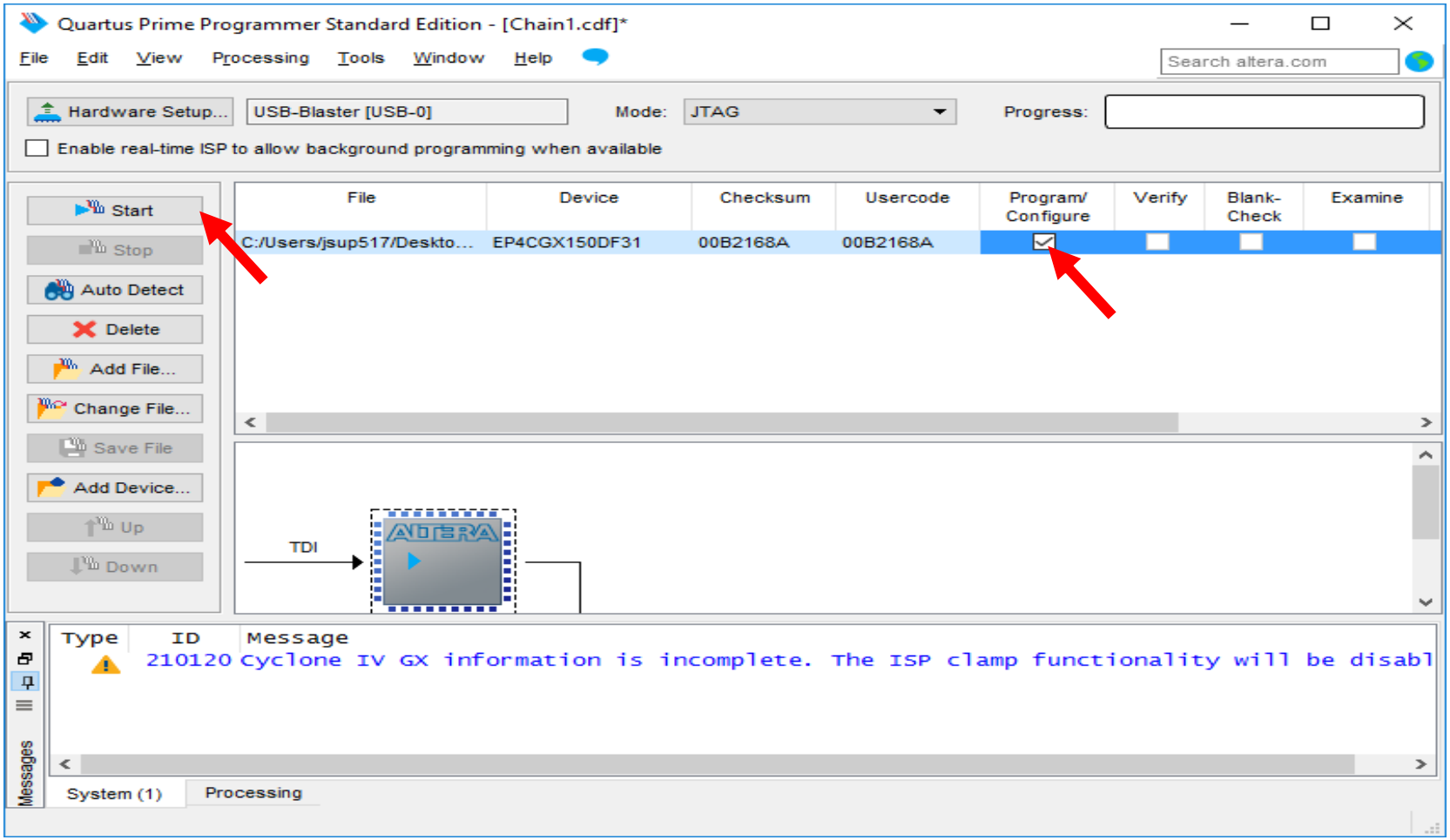
Double click the file



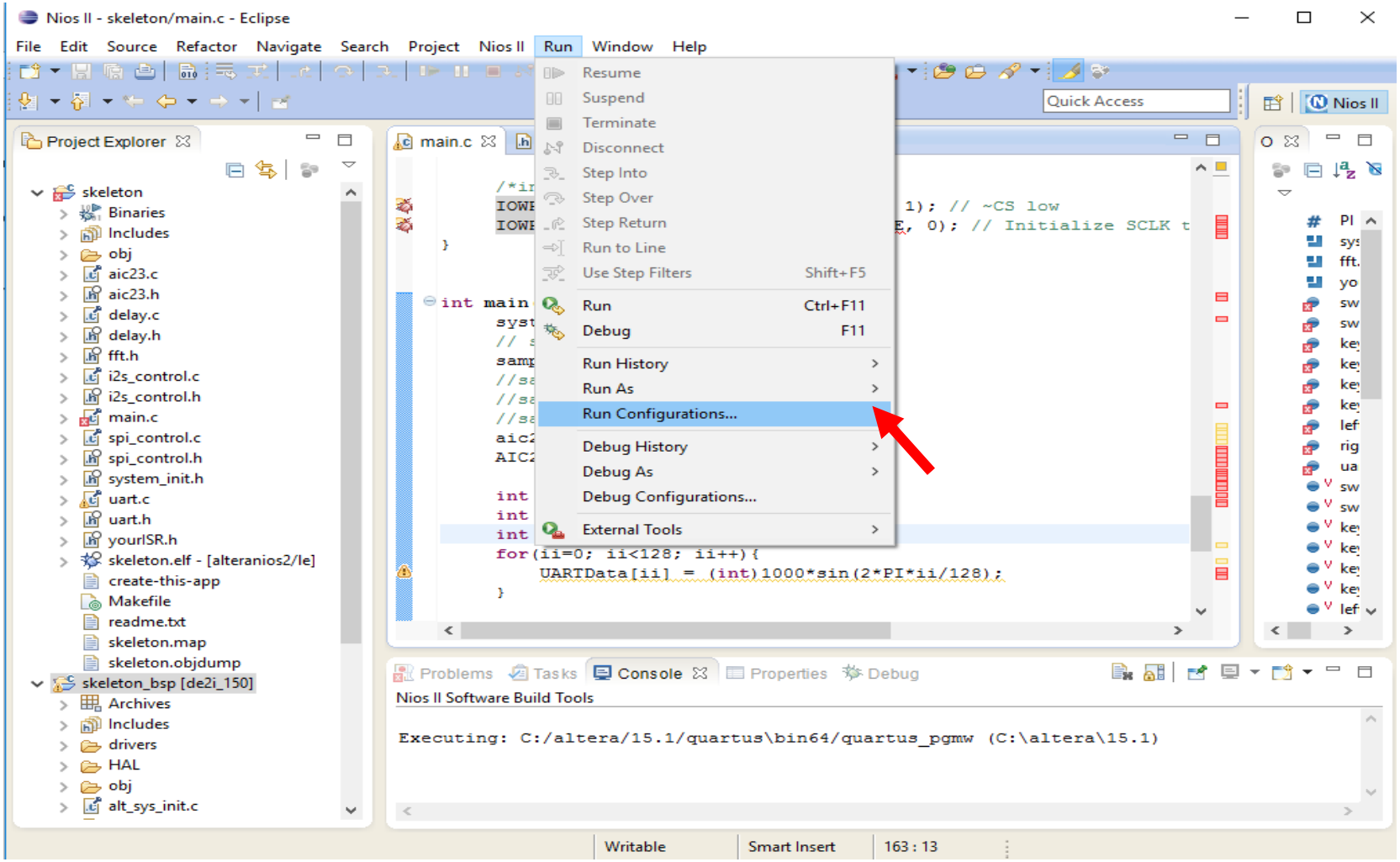
Choose the EE443_DE2i_150.sof file, which is on the EE443 folder



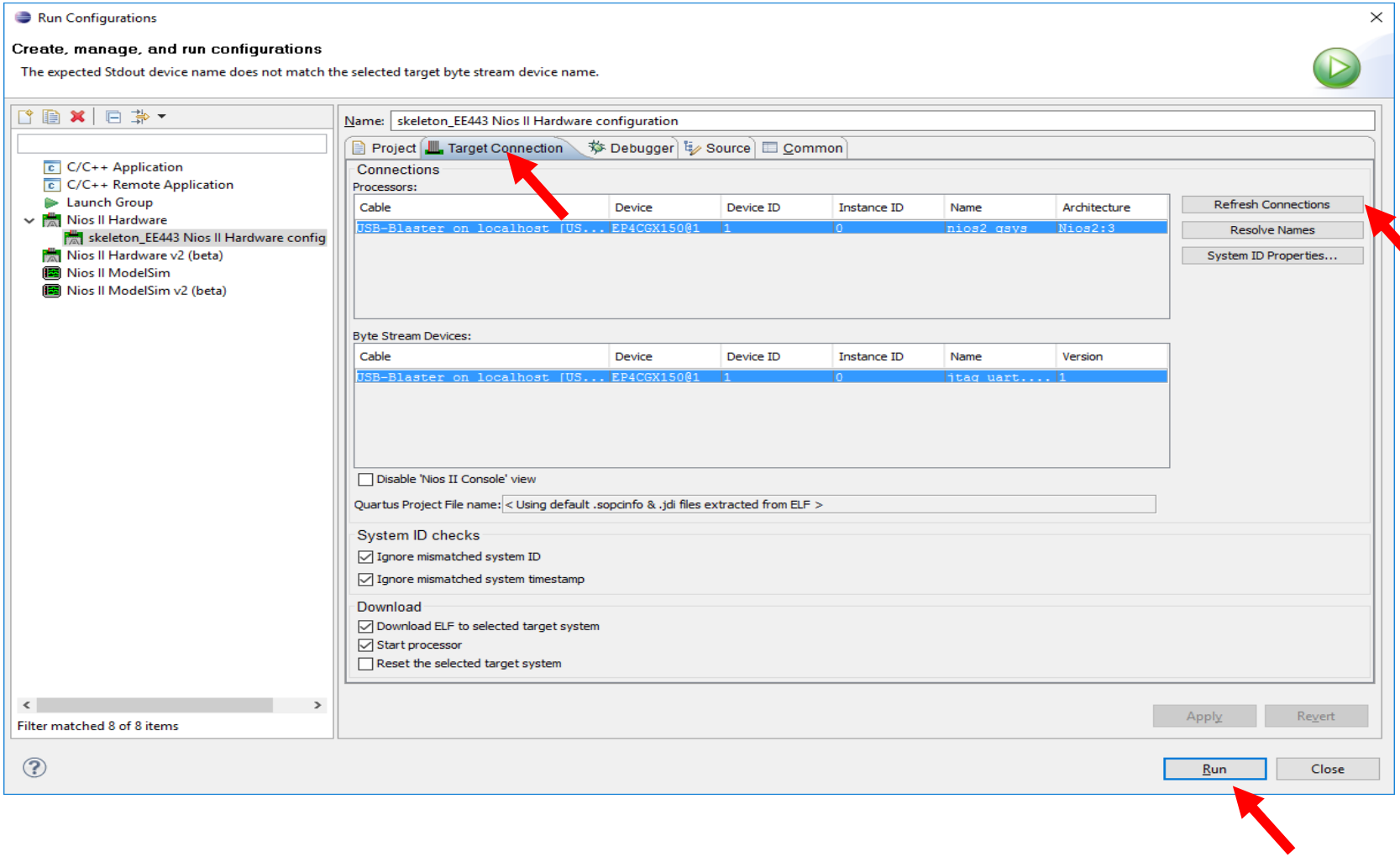
Check the Program/Configure box and click on the Start button



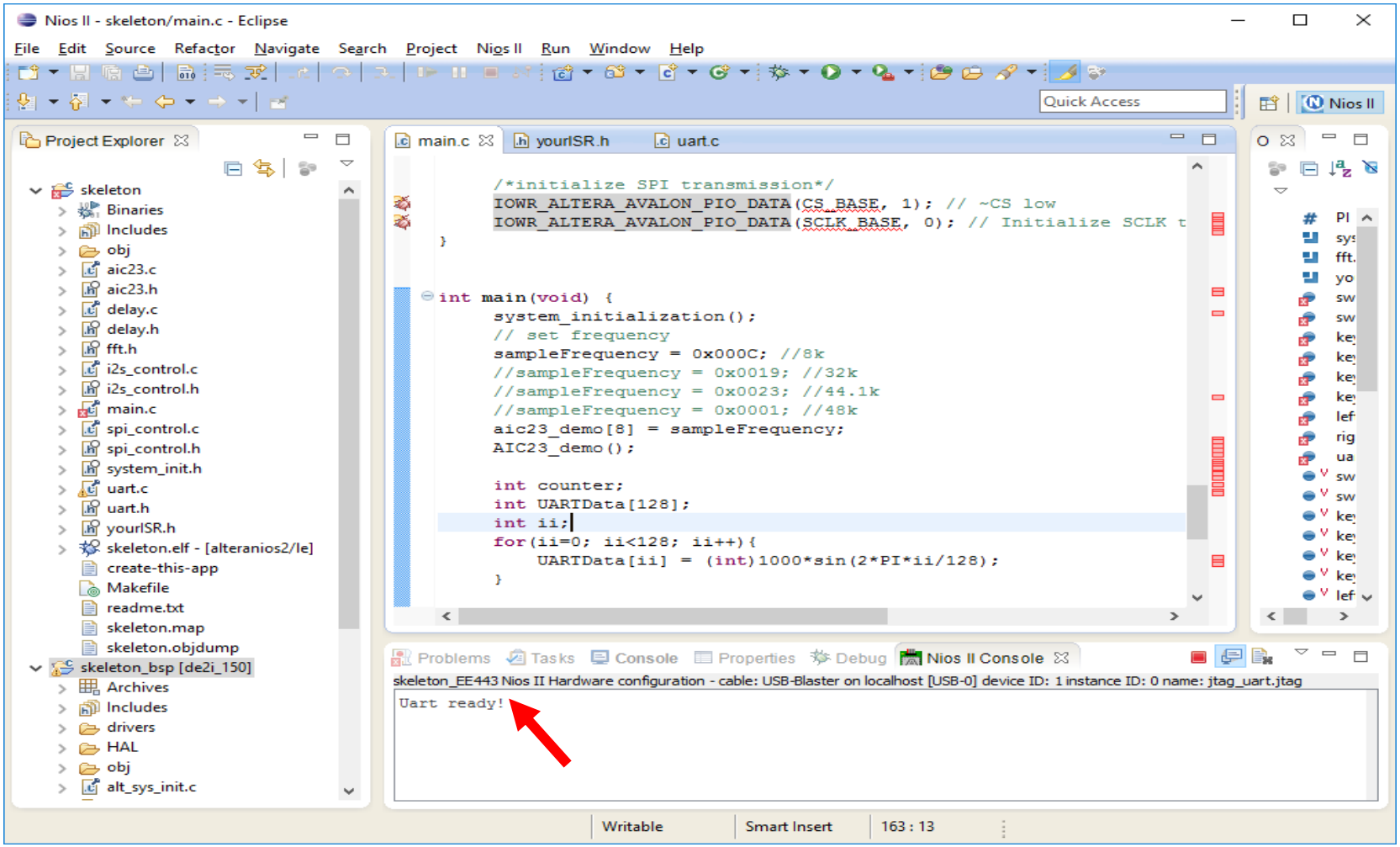
Go to Run configuration



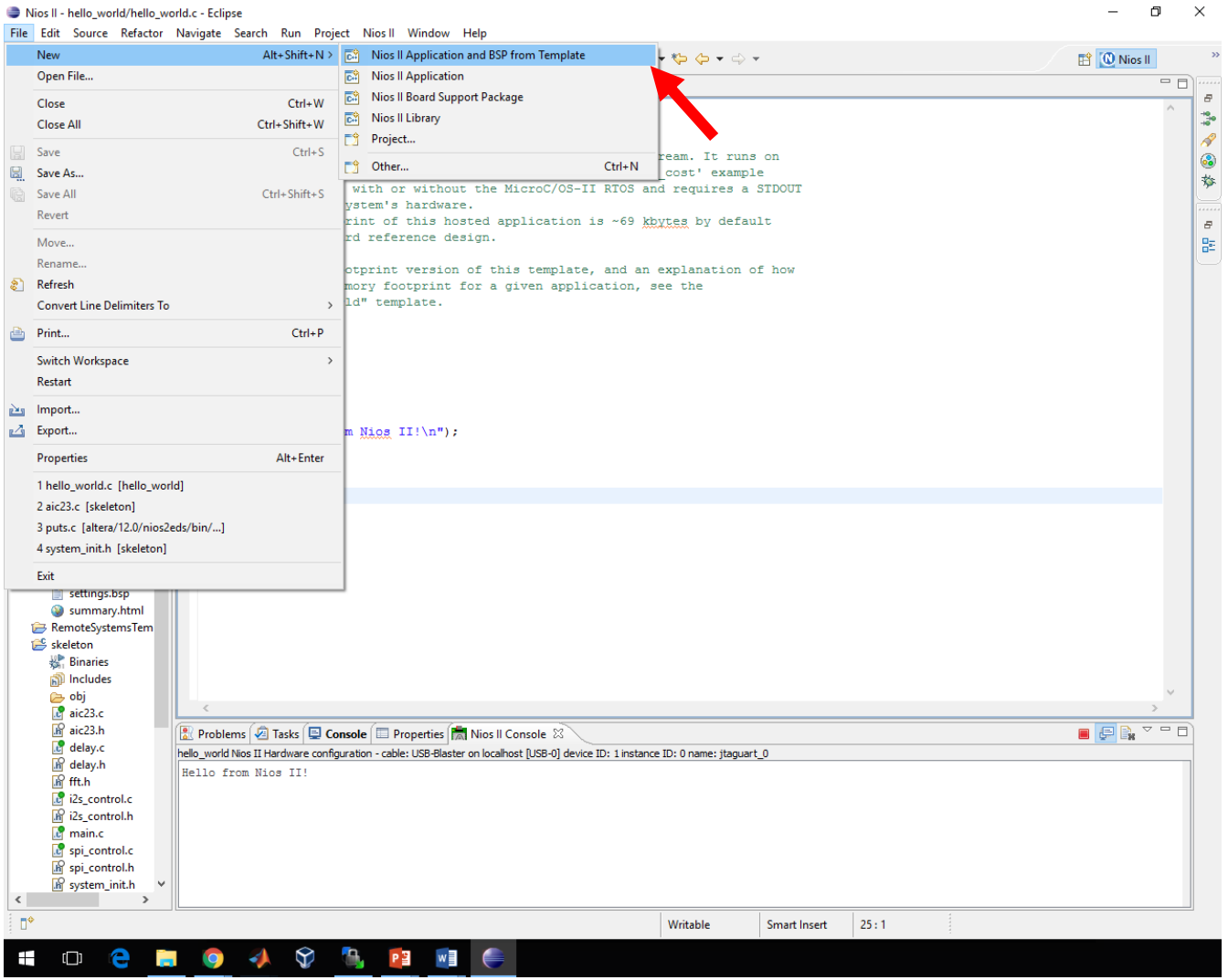
Refresh the connection. Go to Target Connection tap, and click on the Refresh Connections



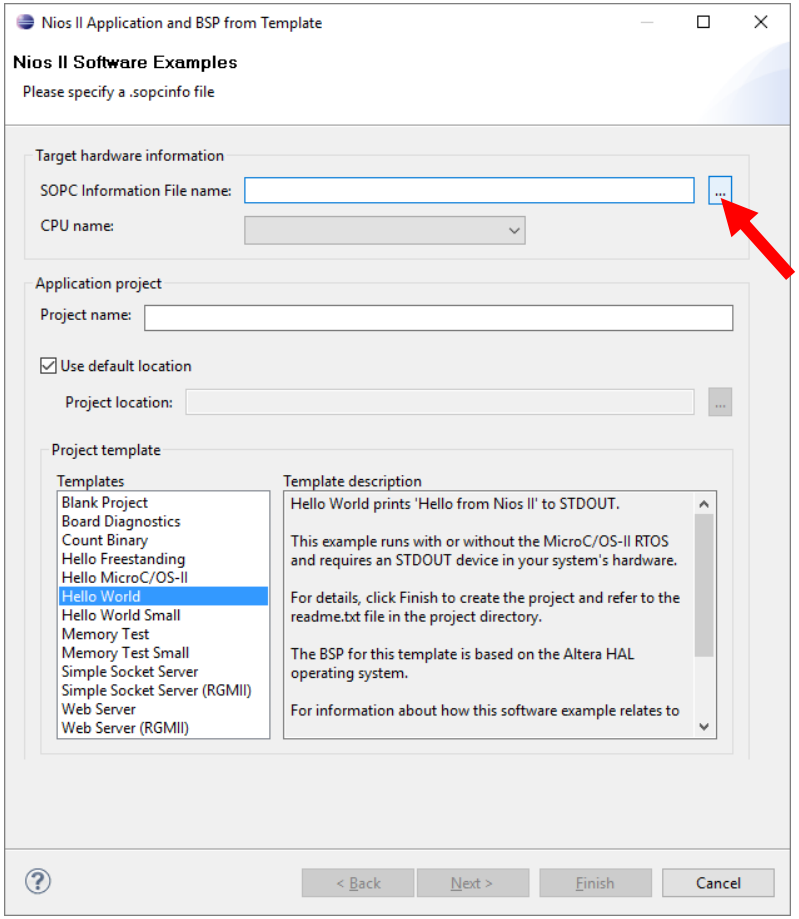
Run the program by clicking the Run

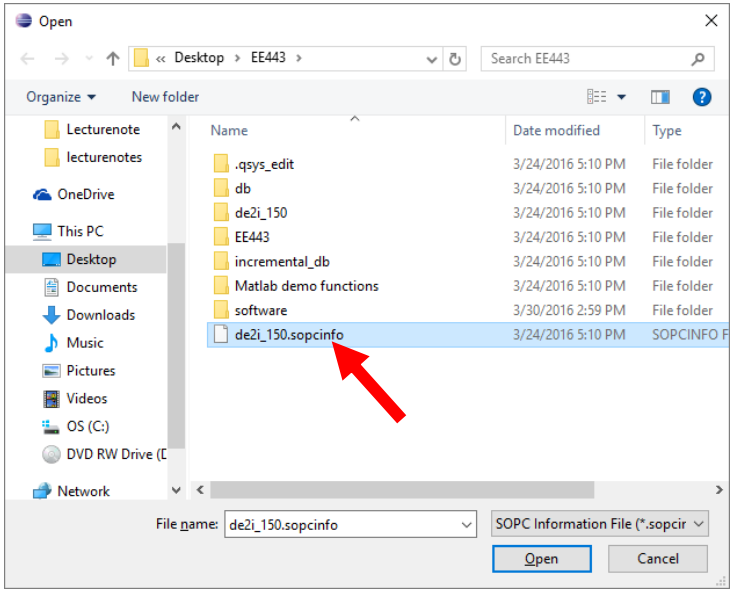


Generate “Hello World!!” project

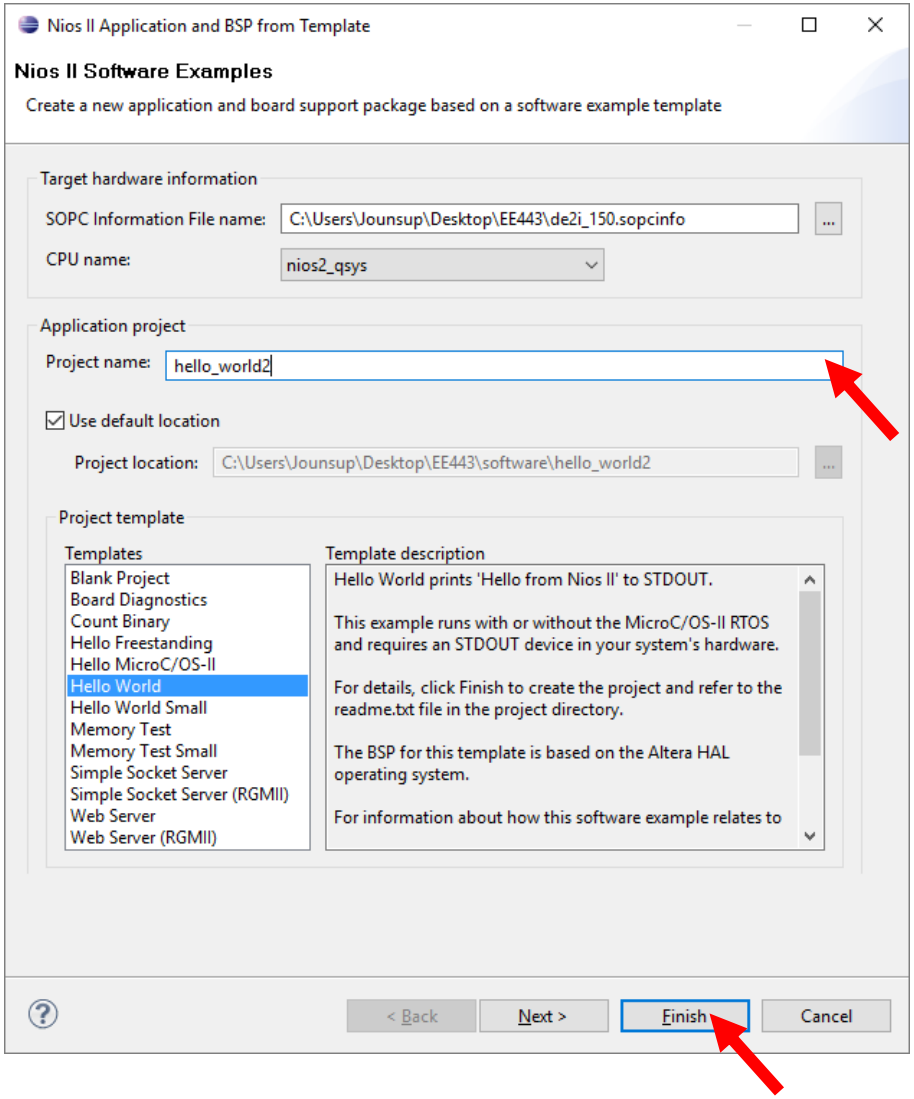


Select the SOPC info file

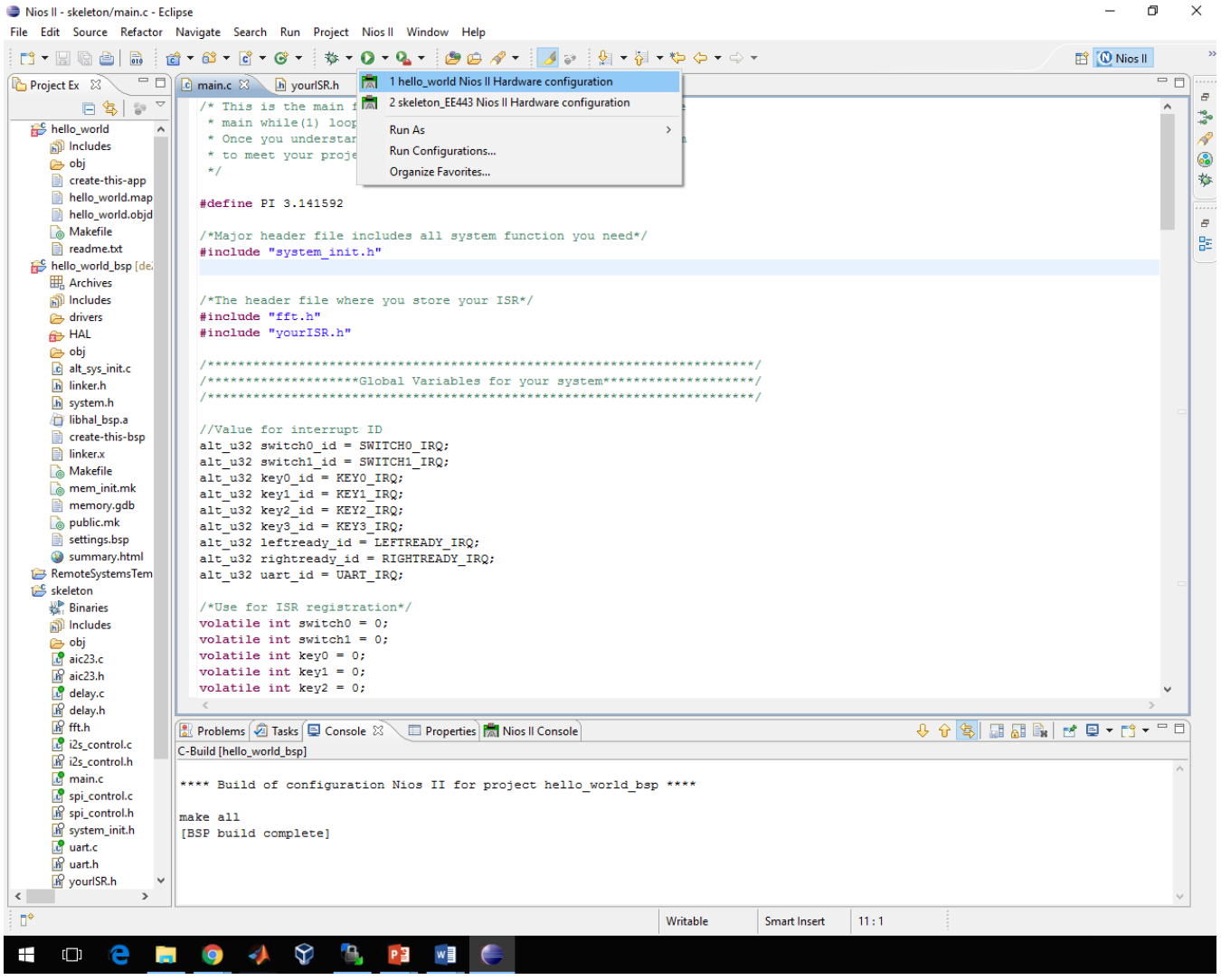




Write a project name and finish

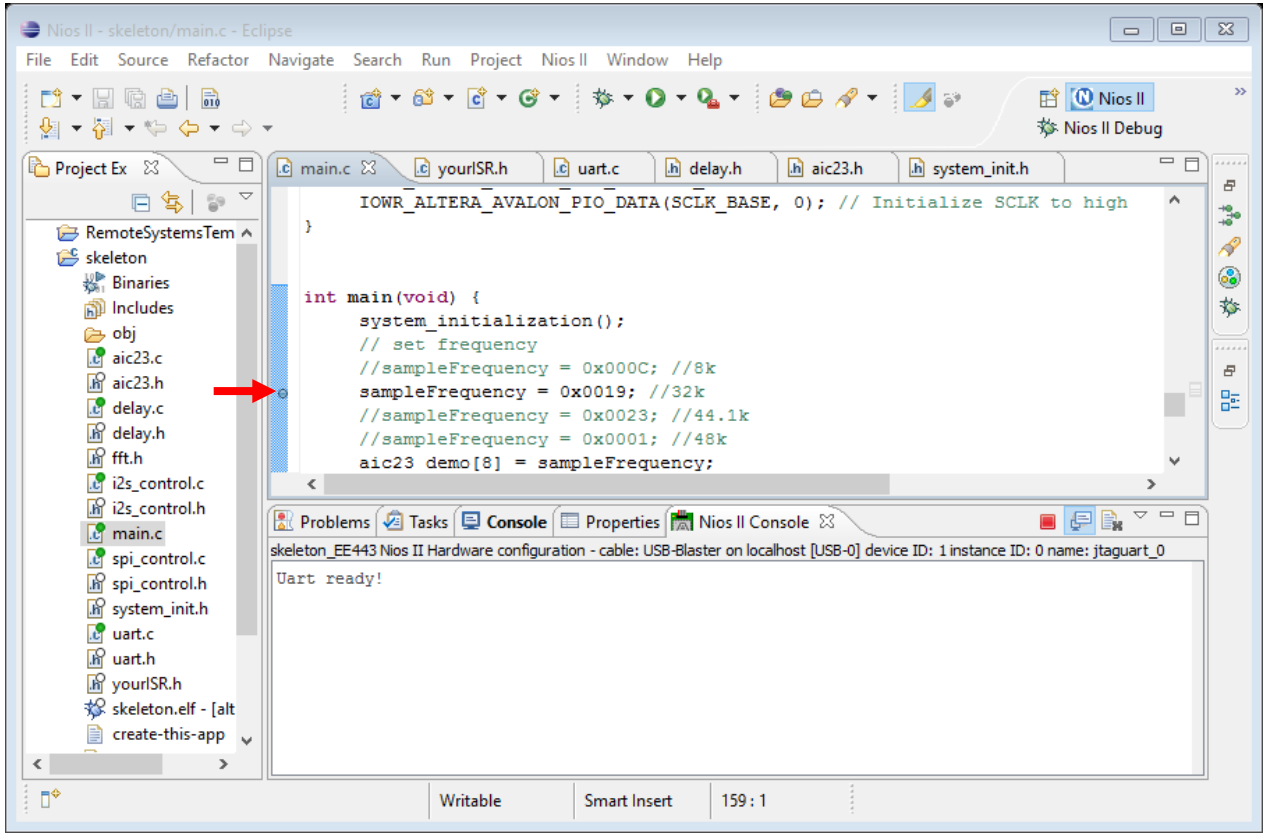


Build and run the program



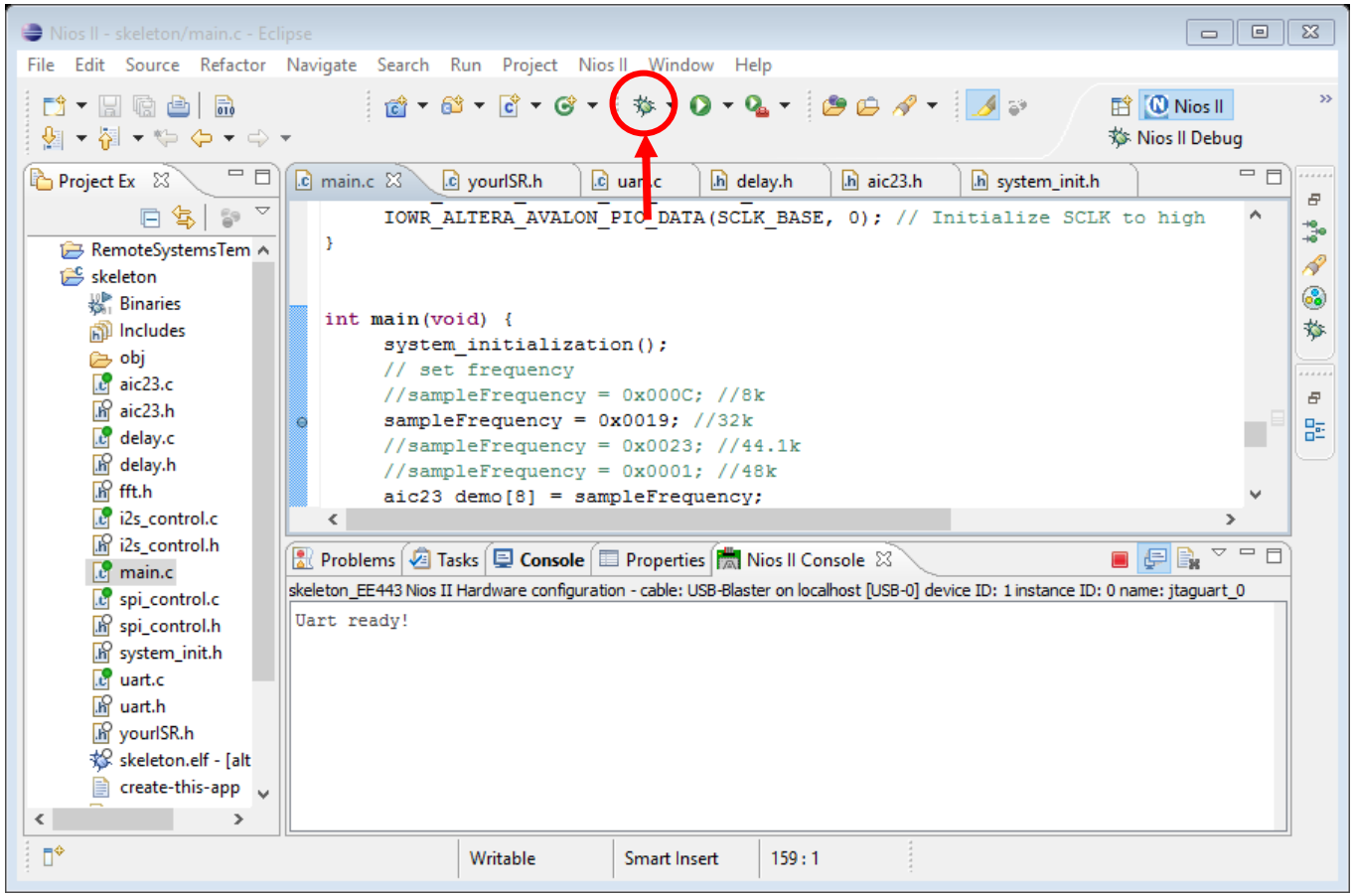
Debugging

- Right click or double click on the left bar of the main window to set a breakpoint



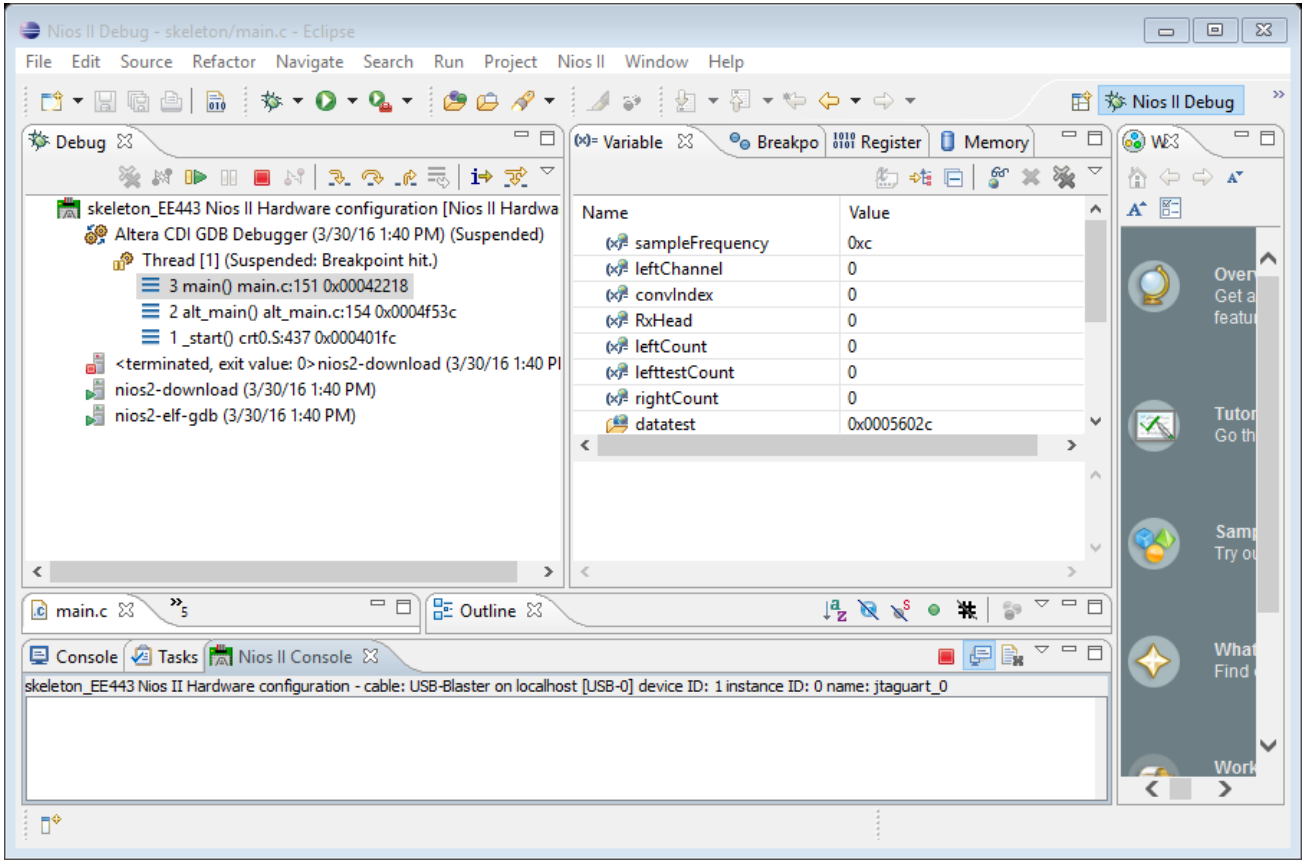
Debugging

- Click the debug button



Debugging

- Debugging mode



Debugging

- Control


Resume : go to the next breakpoint


Suspend : pause the process


Terminate : quit from the debugging mode


Step into : step into the function


Step over : skip the details of the function


Step return : return to the main function