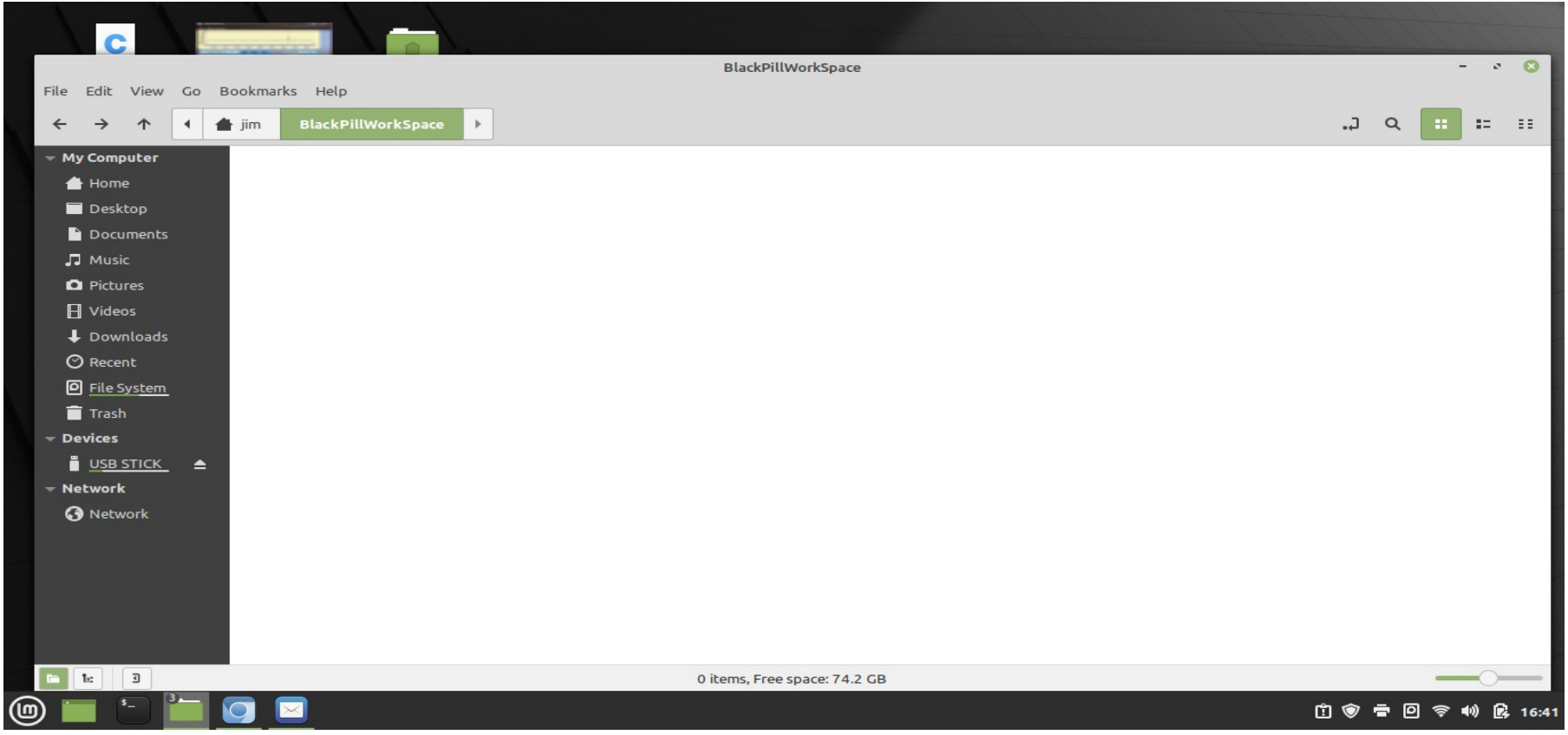
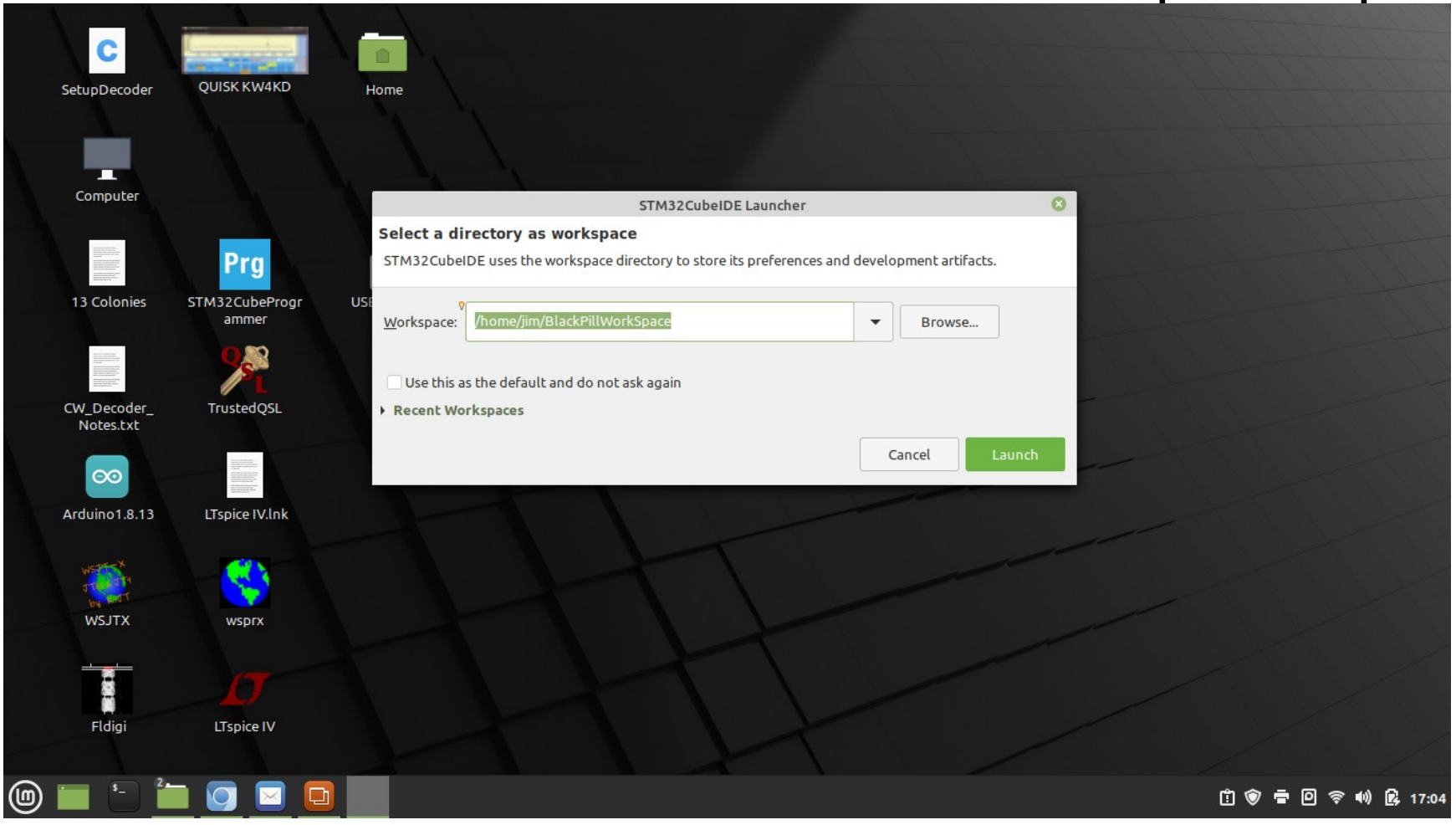
GitHub F411 CW Decoder Project Import Steps

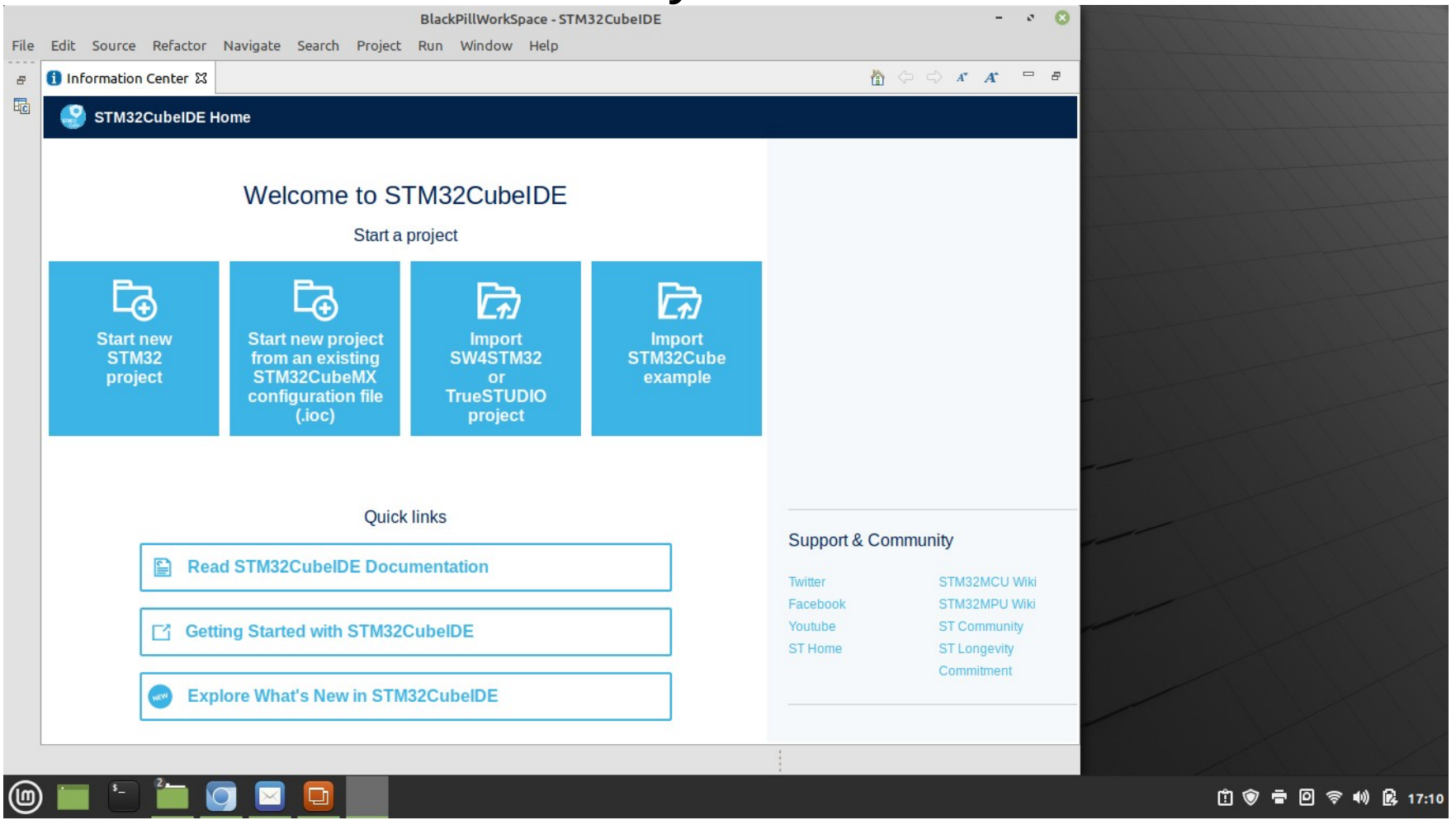
1. Using file manager, Create new blank workspace/folder



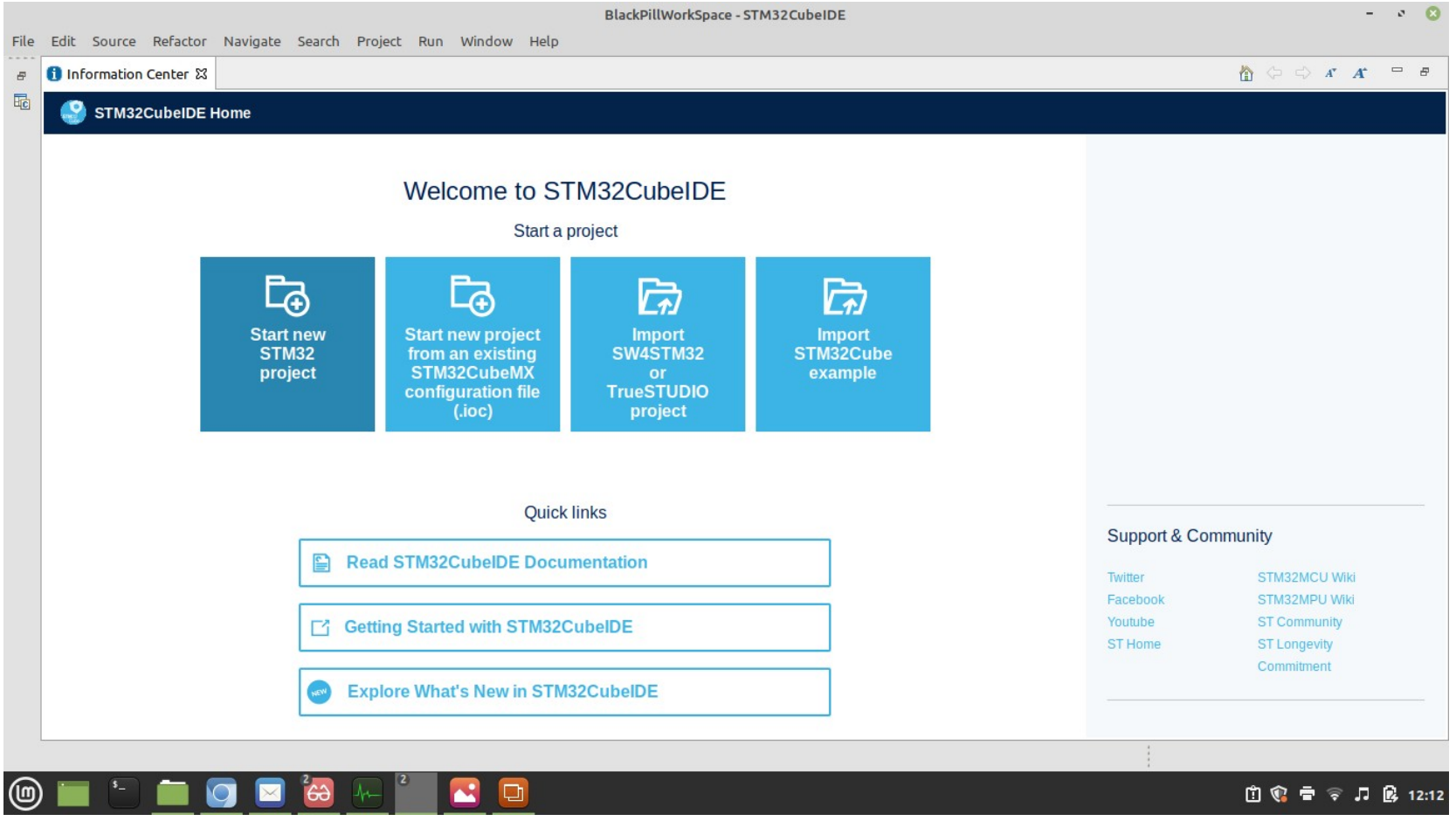
3. Start CUBEIDE & select the folder setup in step 1



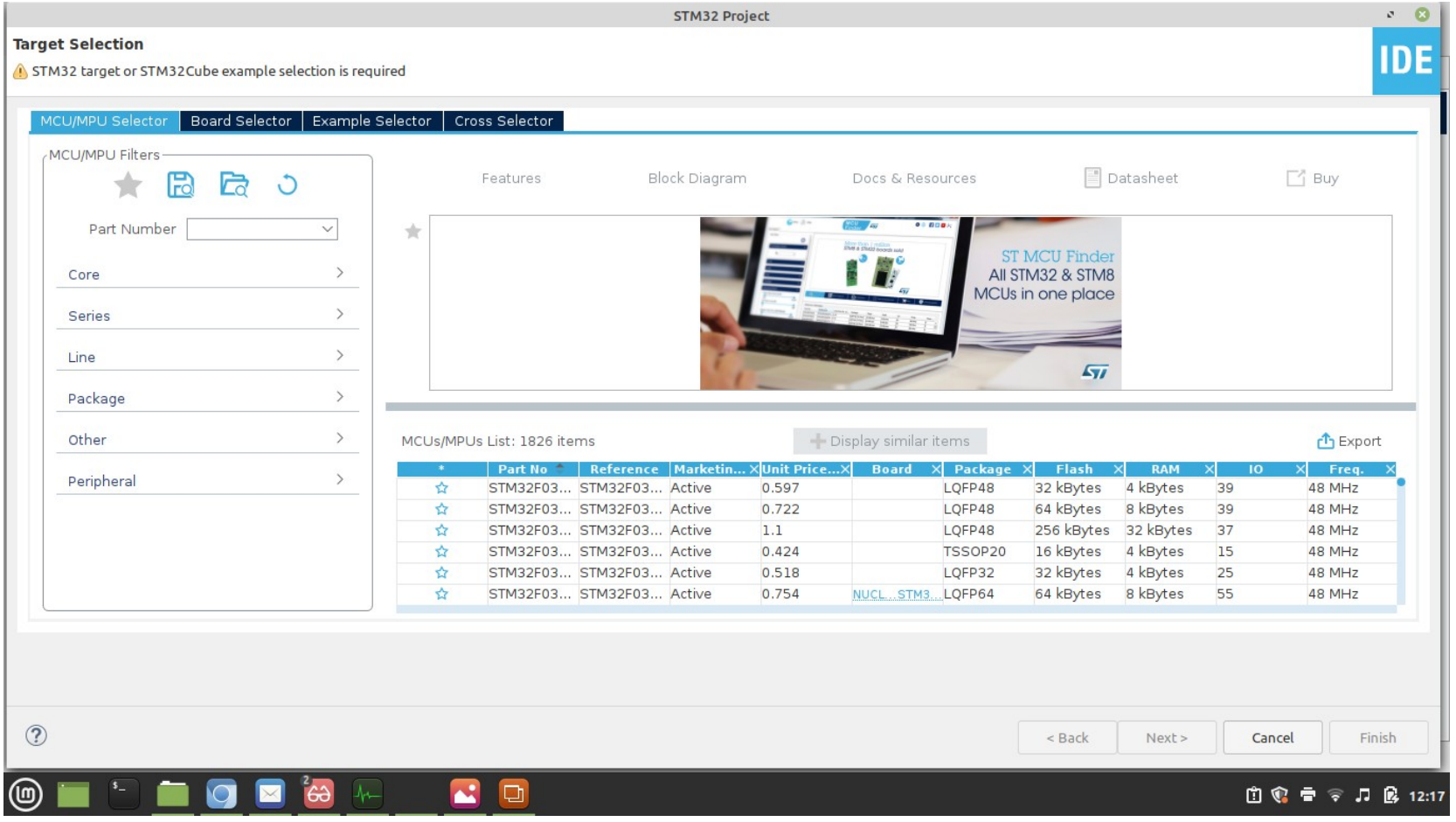
4. After some moments you should see this screen:



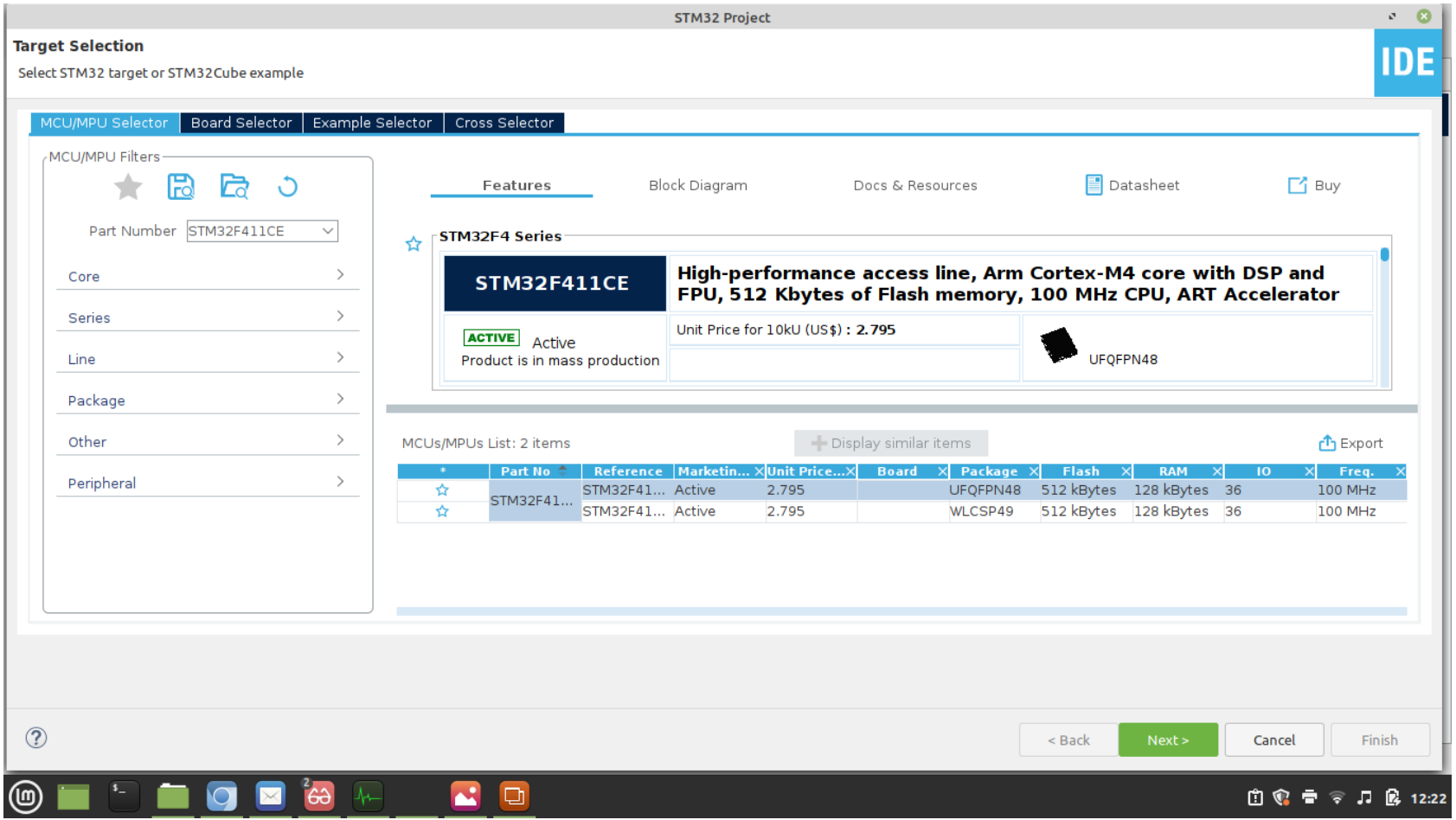
5. Select “Start New STM32 Project”



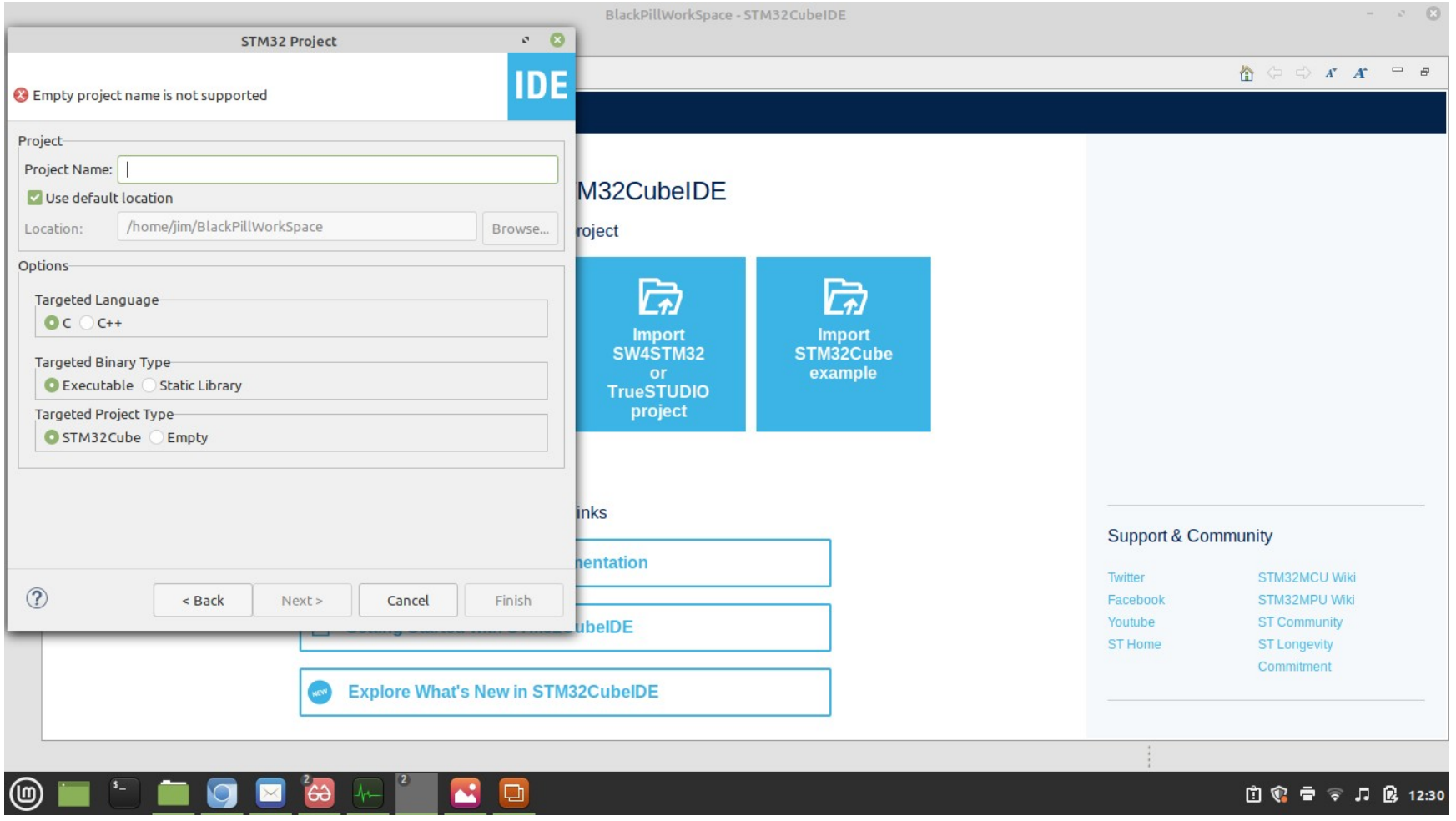
6. After some moments you should see this:



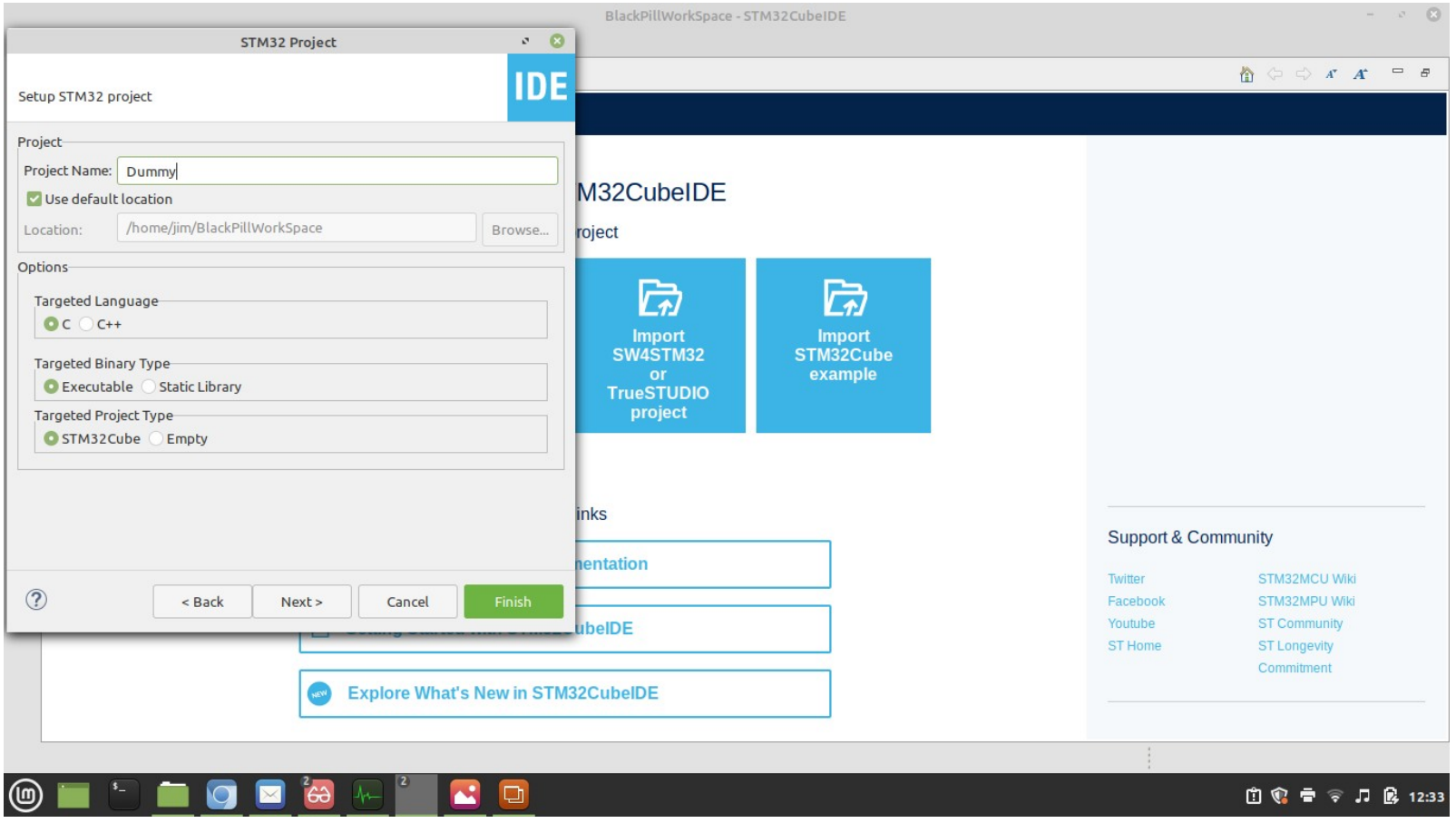
7. Enter “STM32F411CE” in the “Part Number” box. Select the “UFQFPN48” Package, & click the “Next” button.



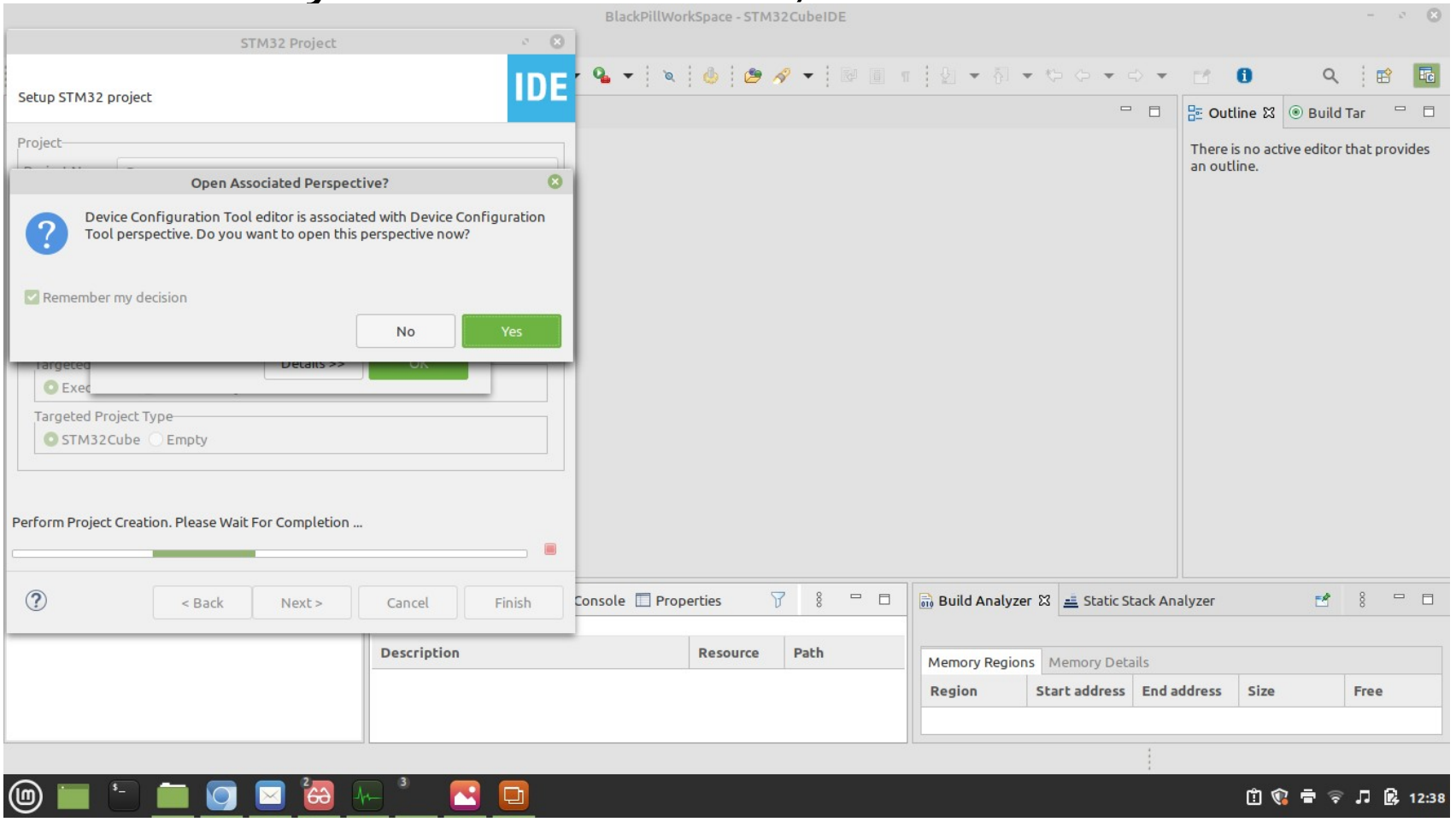
8. You should see this form.



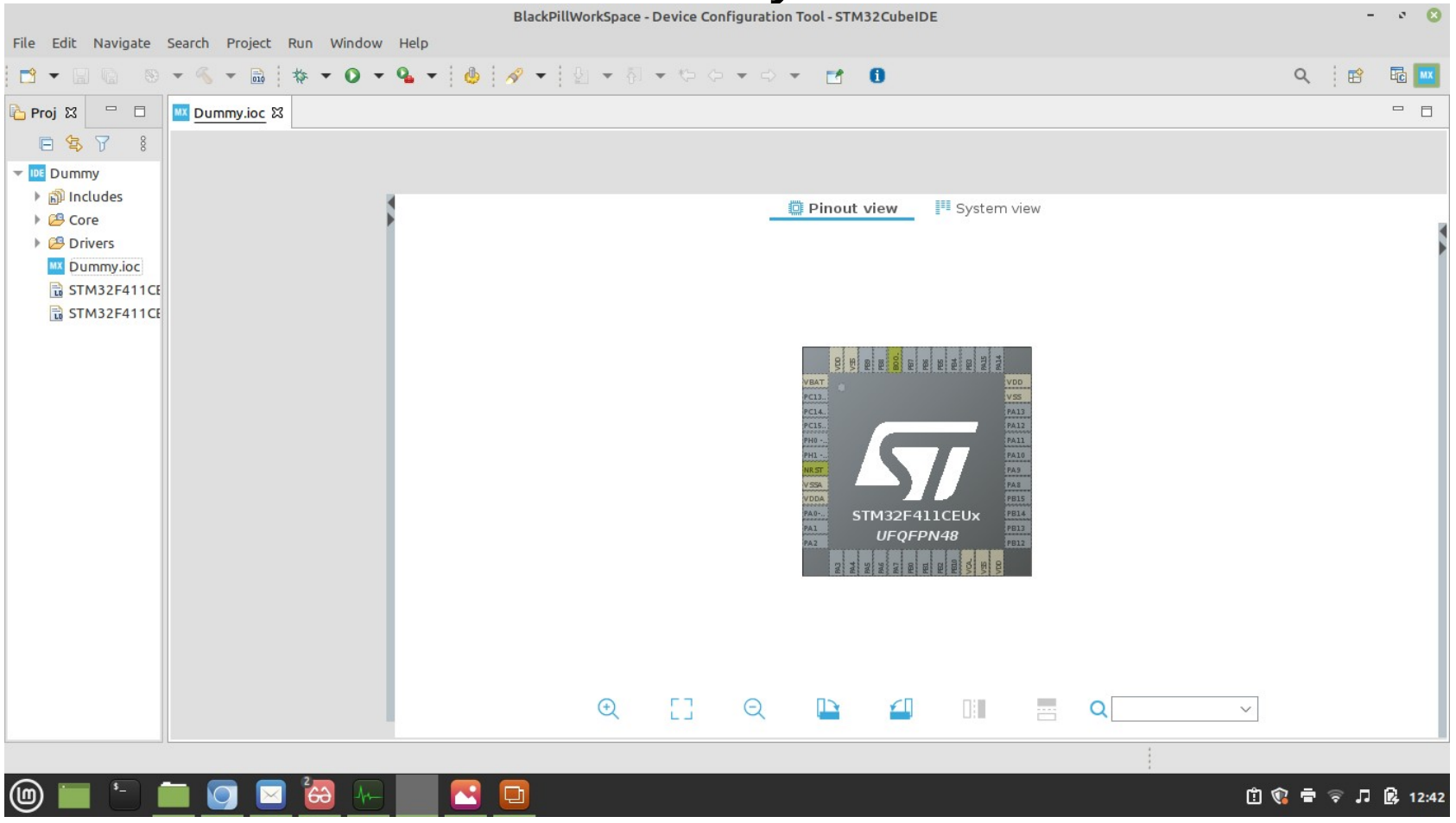
9. Enter any name in the “Project Name” box, & then click the “Finish” button.



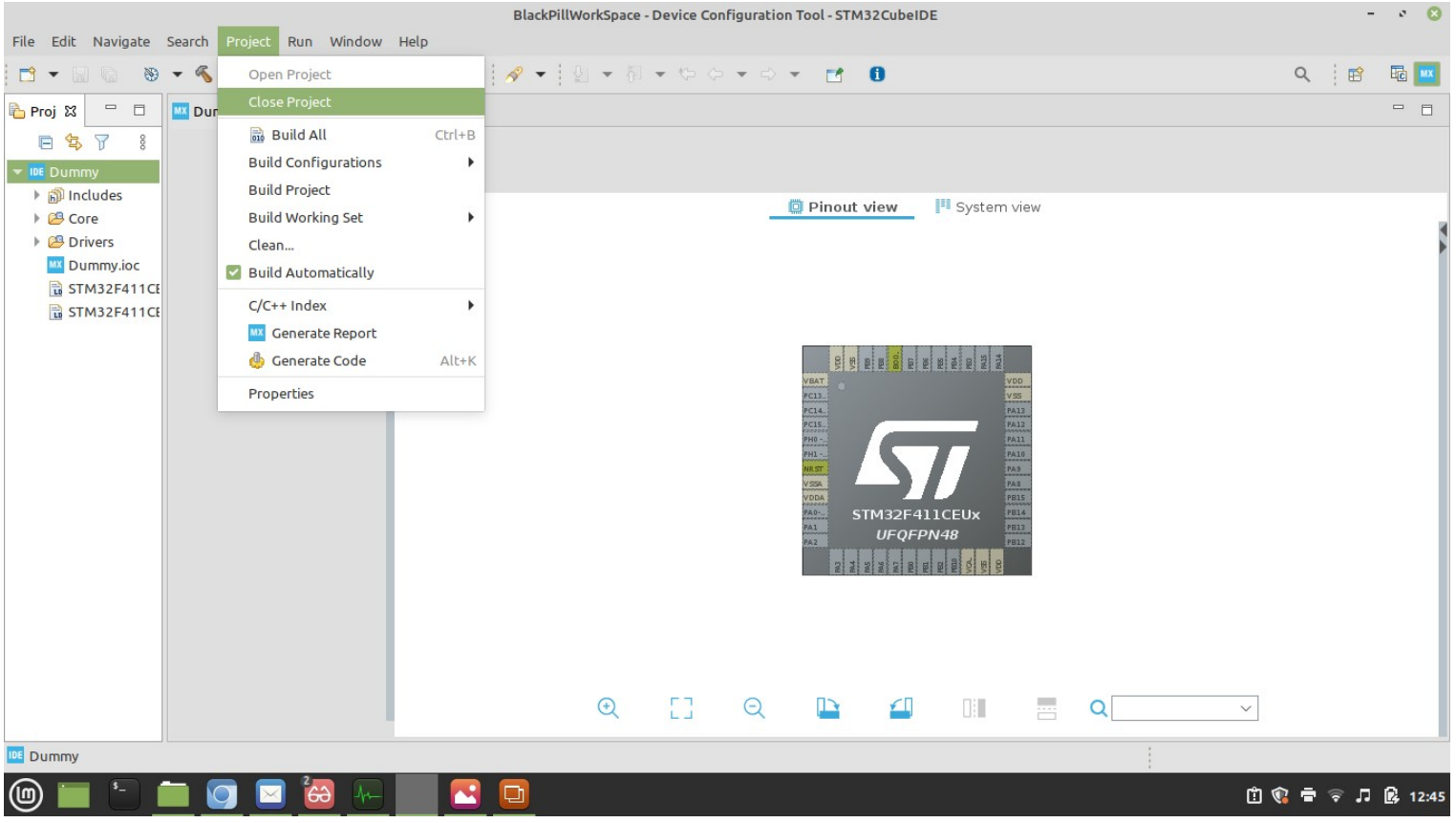
10. When you see this form, click the “Yes” button



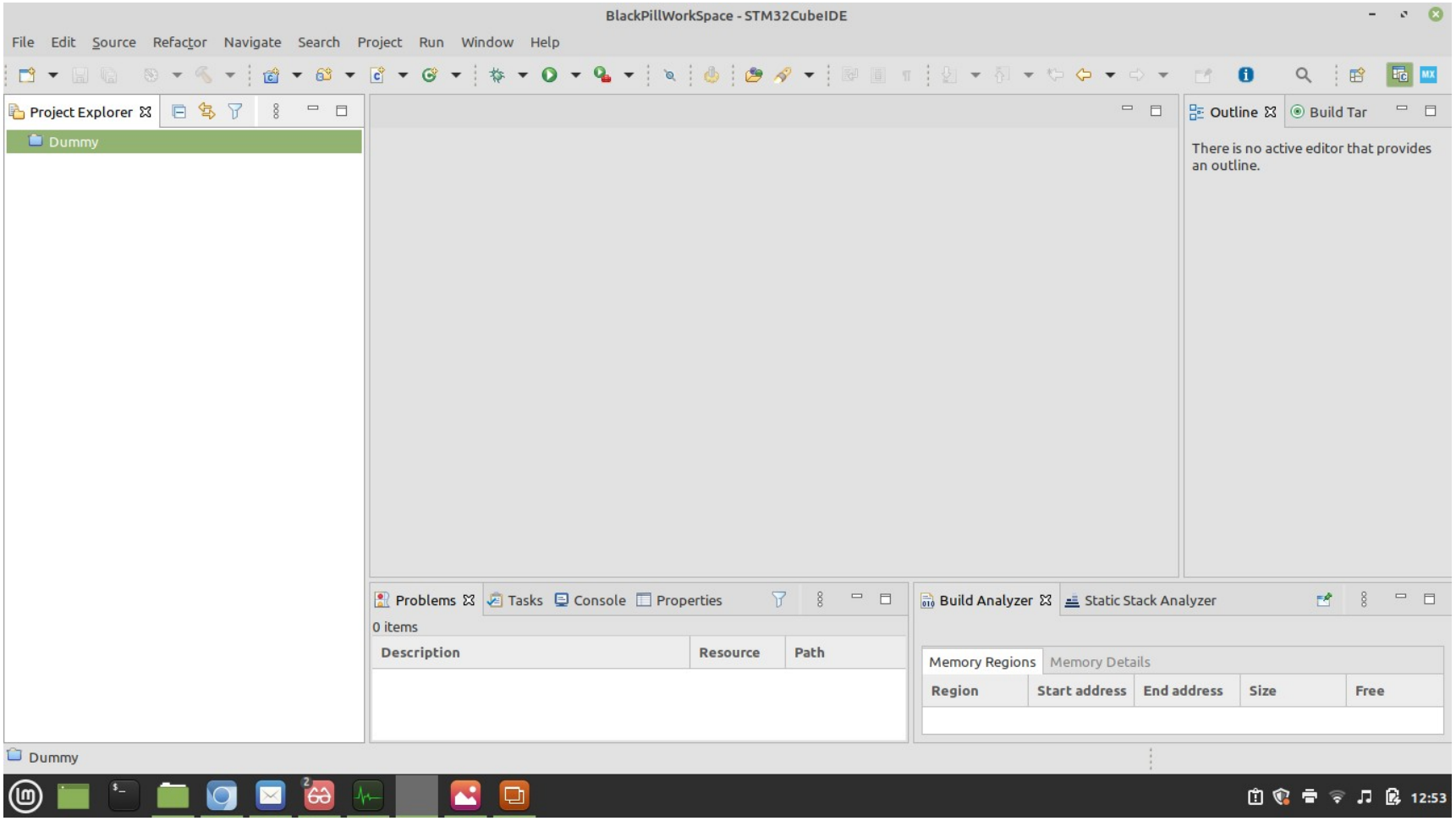
11. After some moments you should see this.



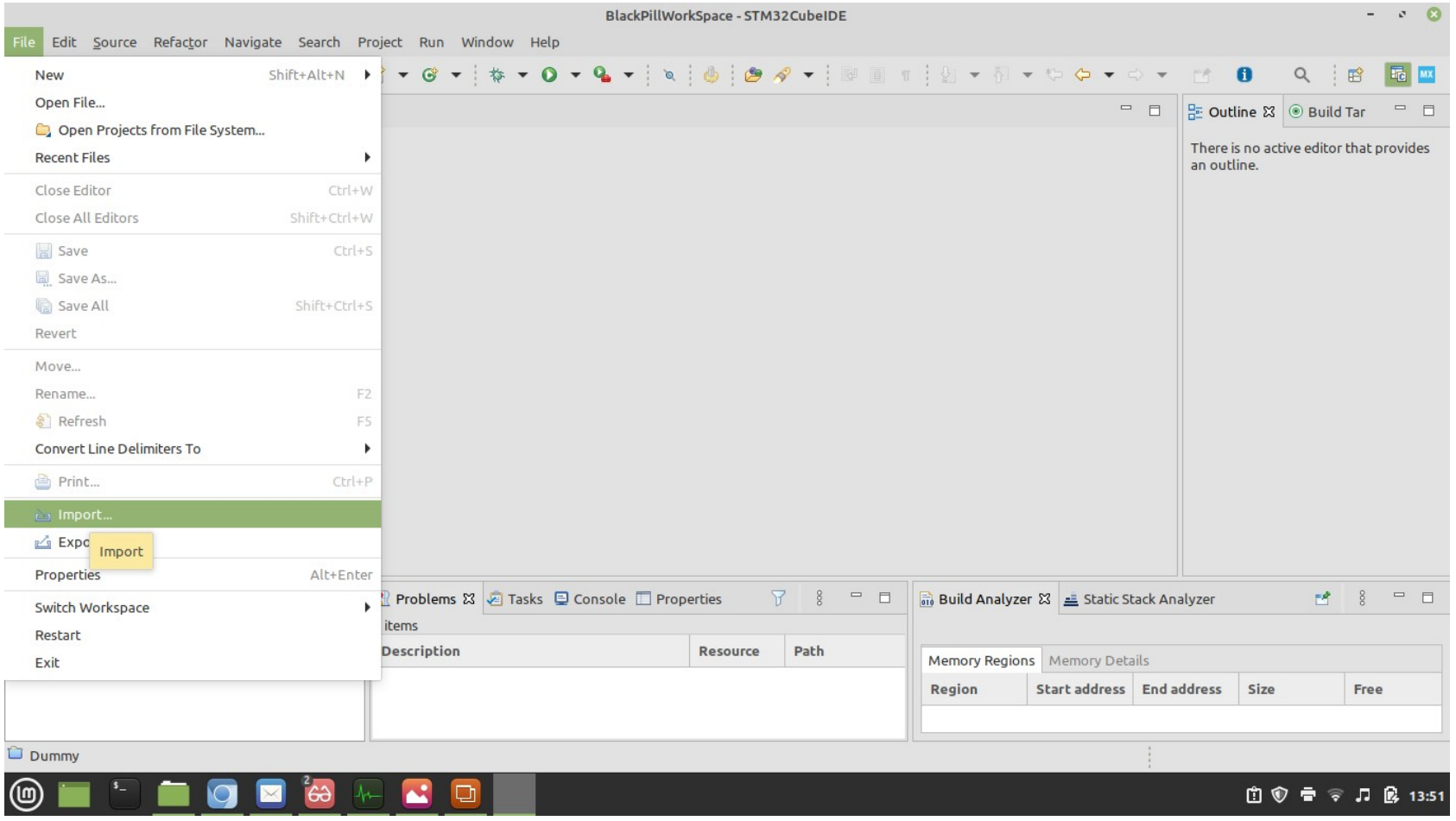
12. In the project tree select the “Dummy” project. Then use the “Project” menu options to “Close Project”



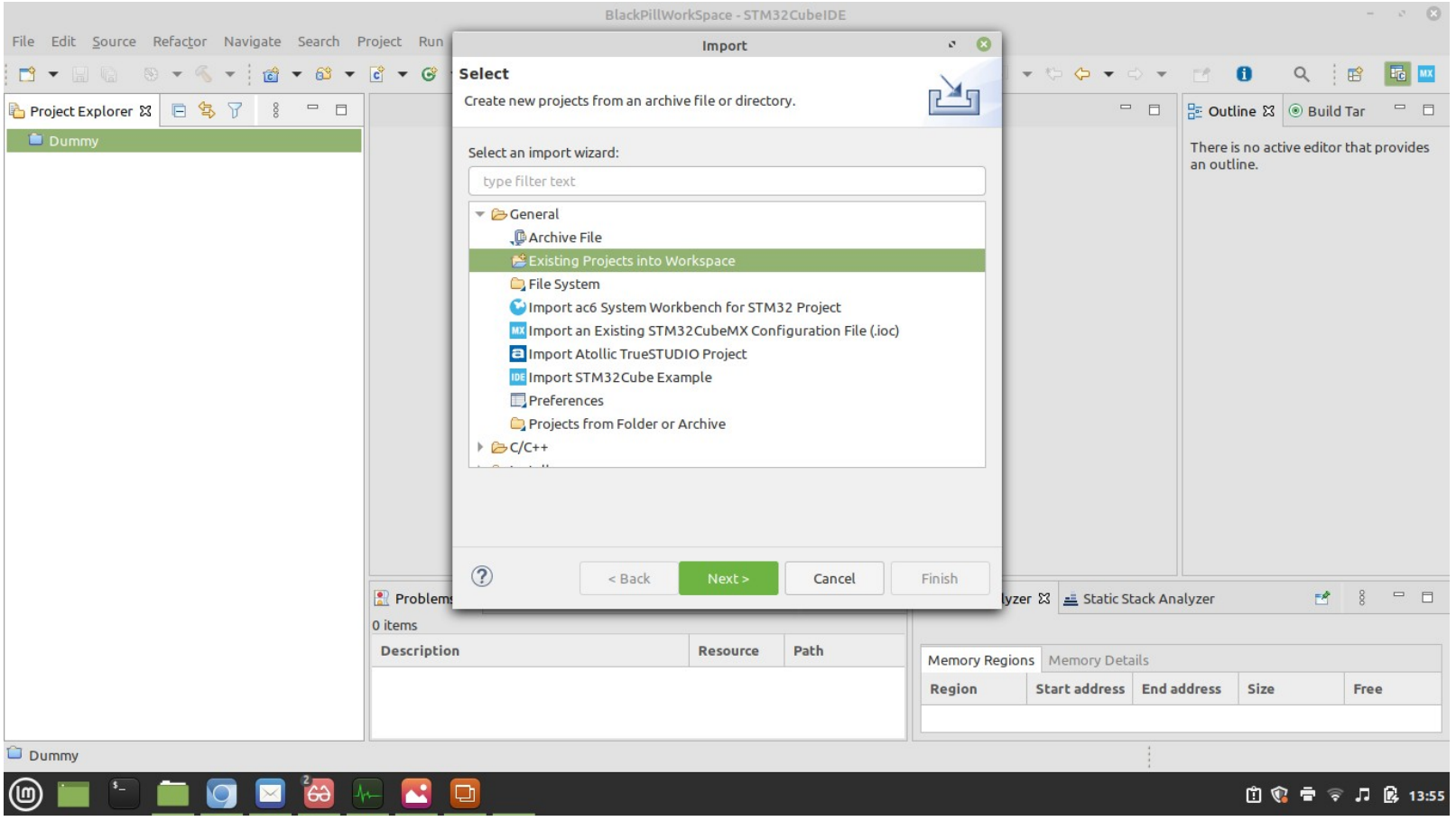
13. After some moments the CUBIDE should look like this.



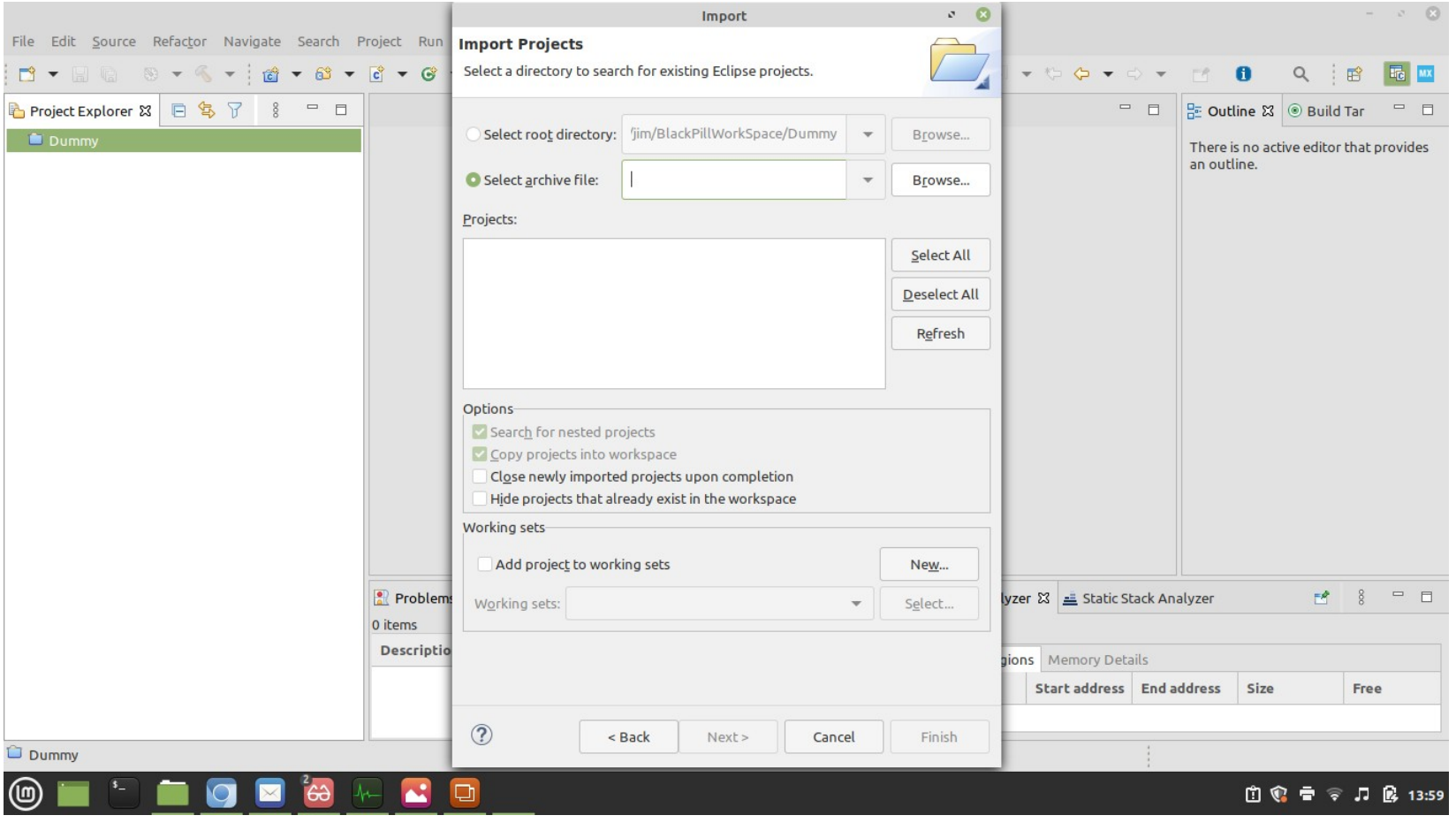
14. Use the “File” menu option “Import”



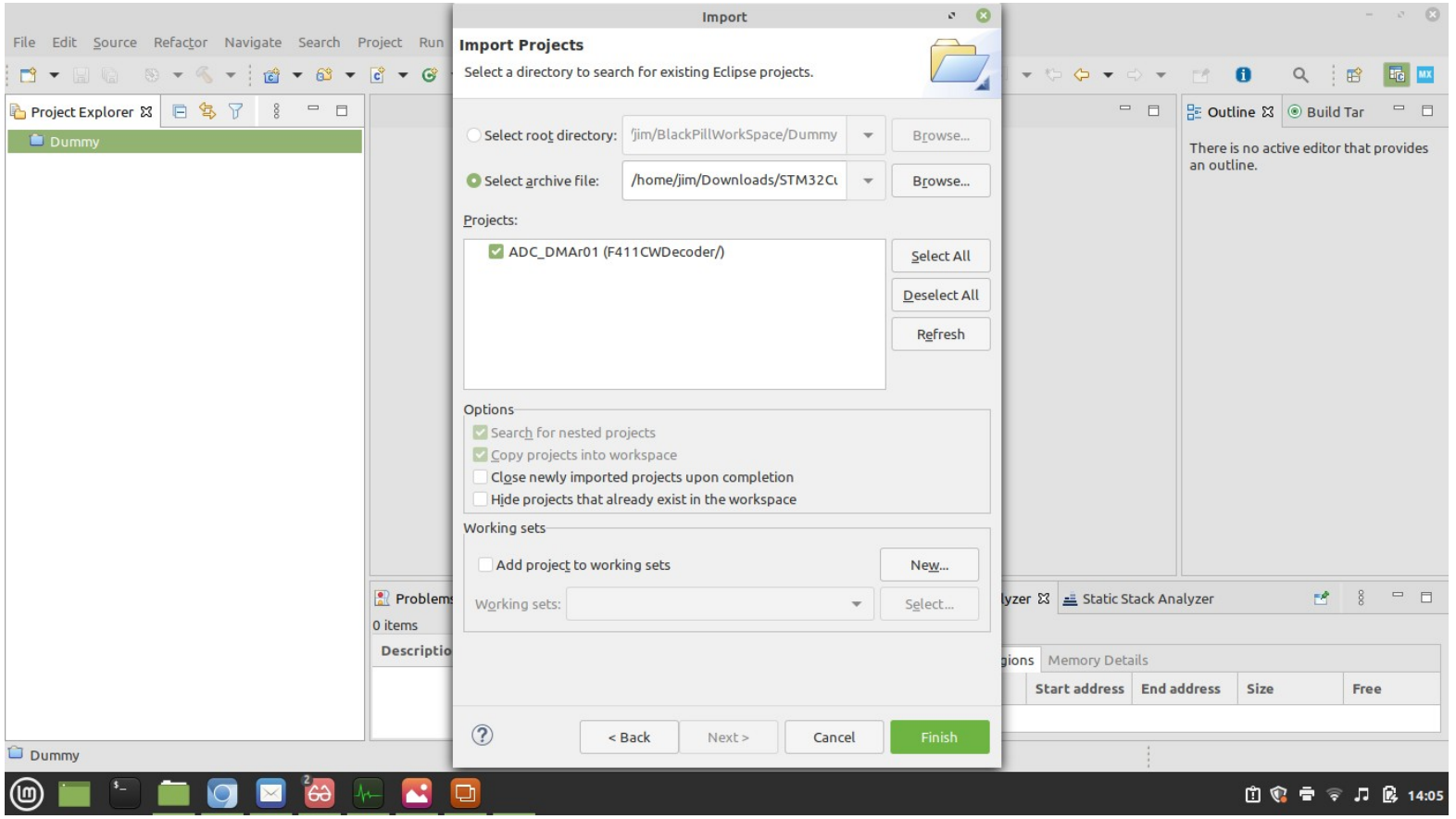
15. Expand the “General” option, & select “Existing Projects into Workspace”, & then click “Next” button



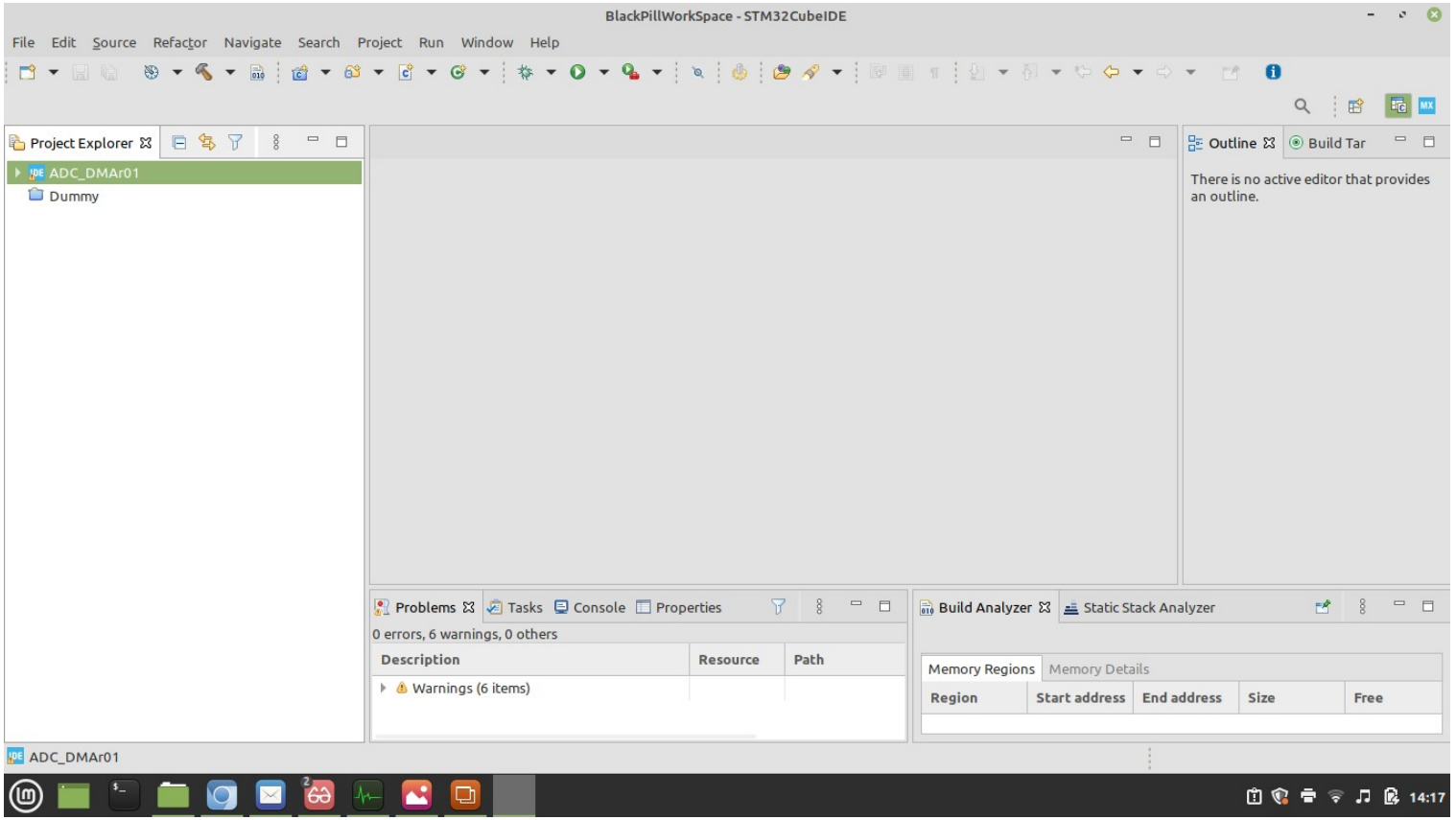
16. Select the “Select archive File”, & use the “Browse” button to navigate/select the “zip” file downloaded from GitHub



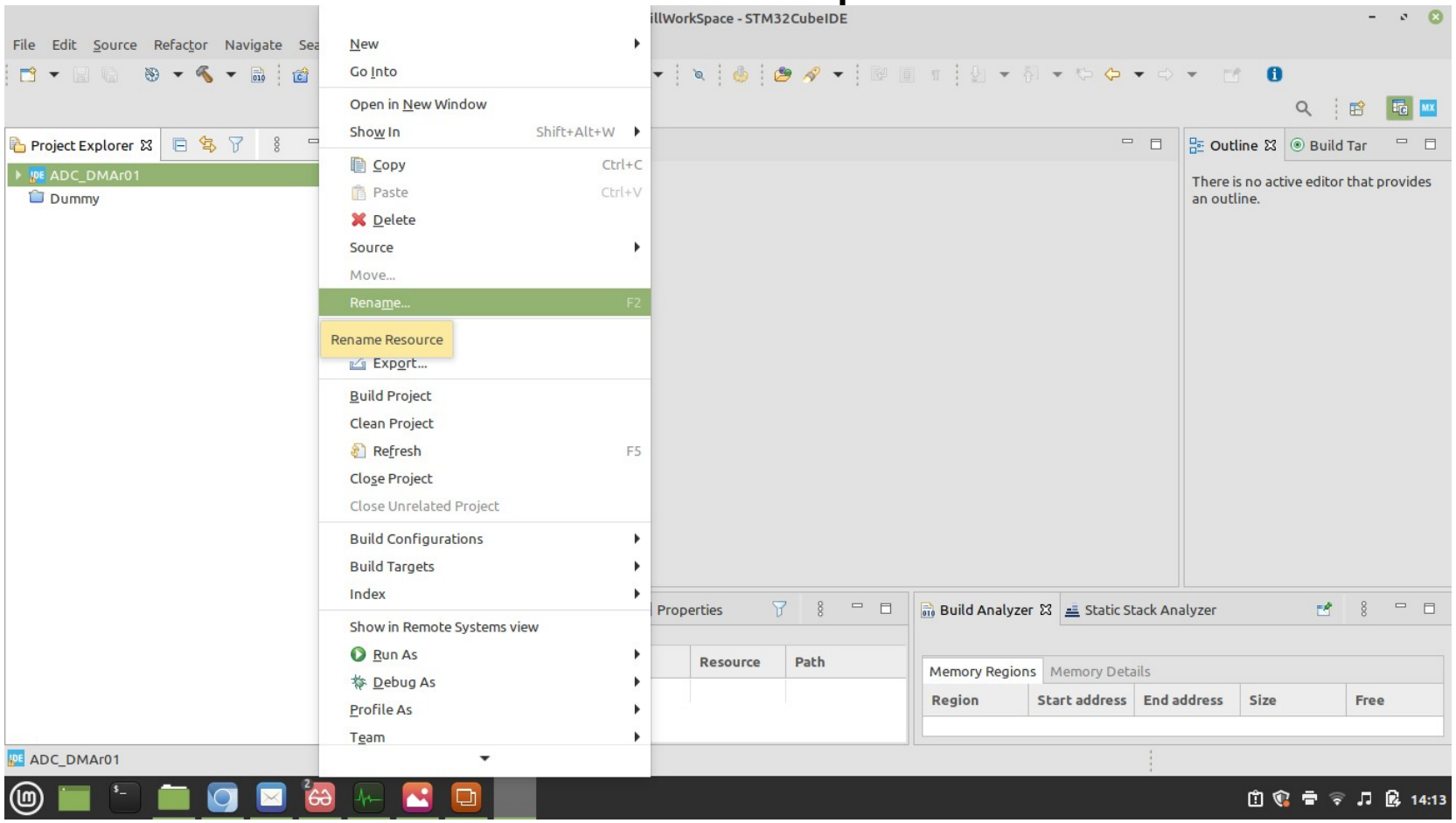
17. When the form looks like this, click the “Finish” button to import the project



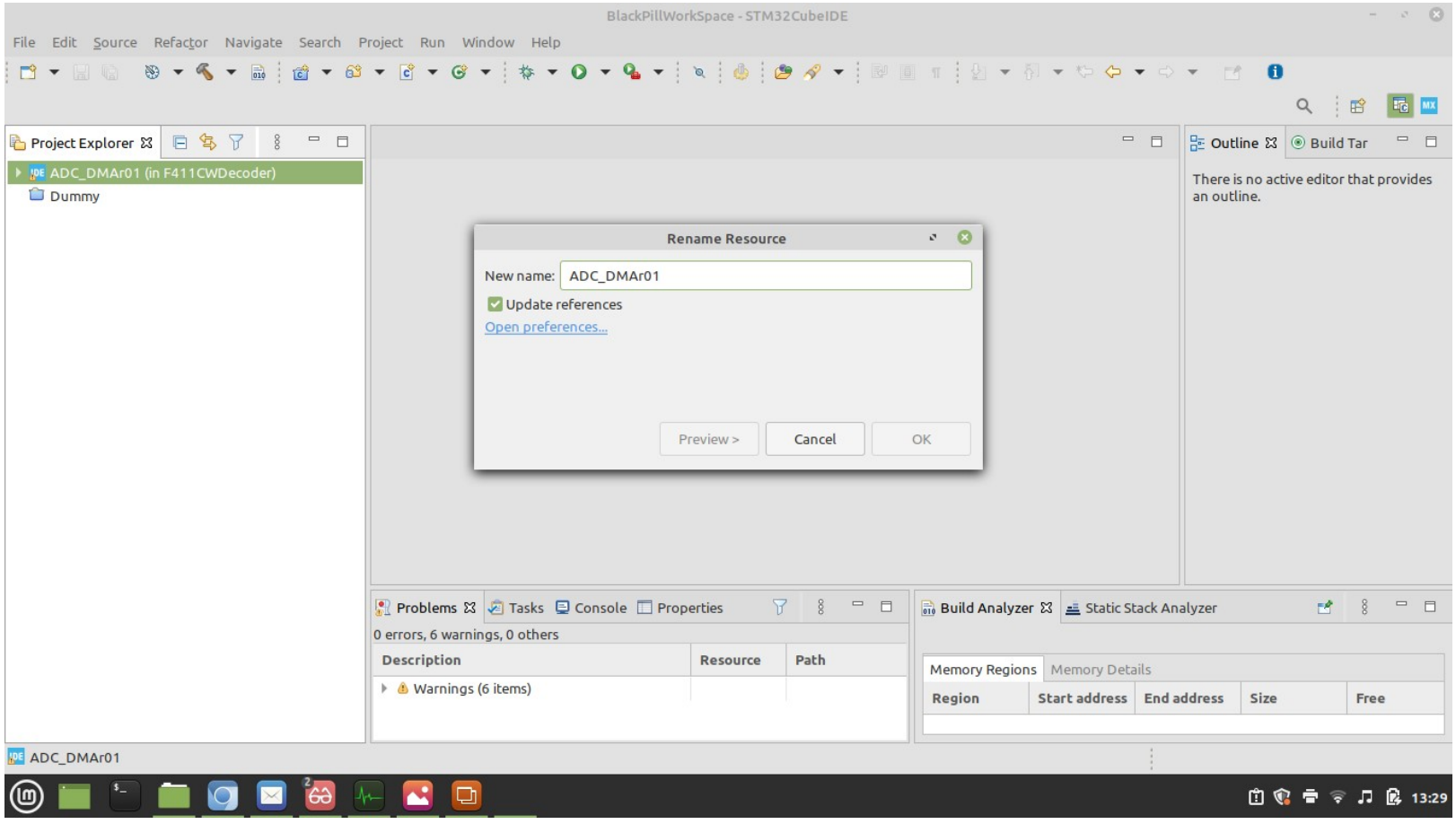
18. You should now see the imported project in the project tree. Wait for it to complete the import process before moving to the next step.



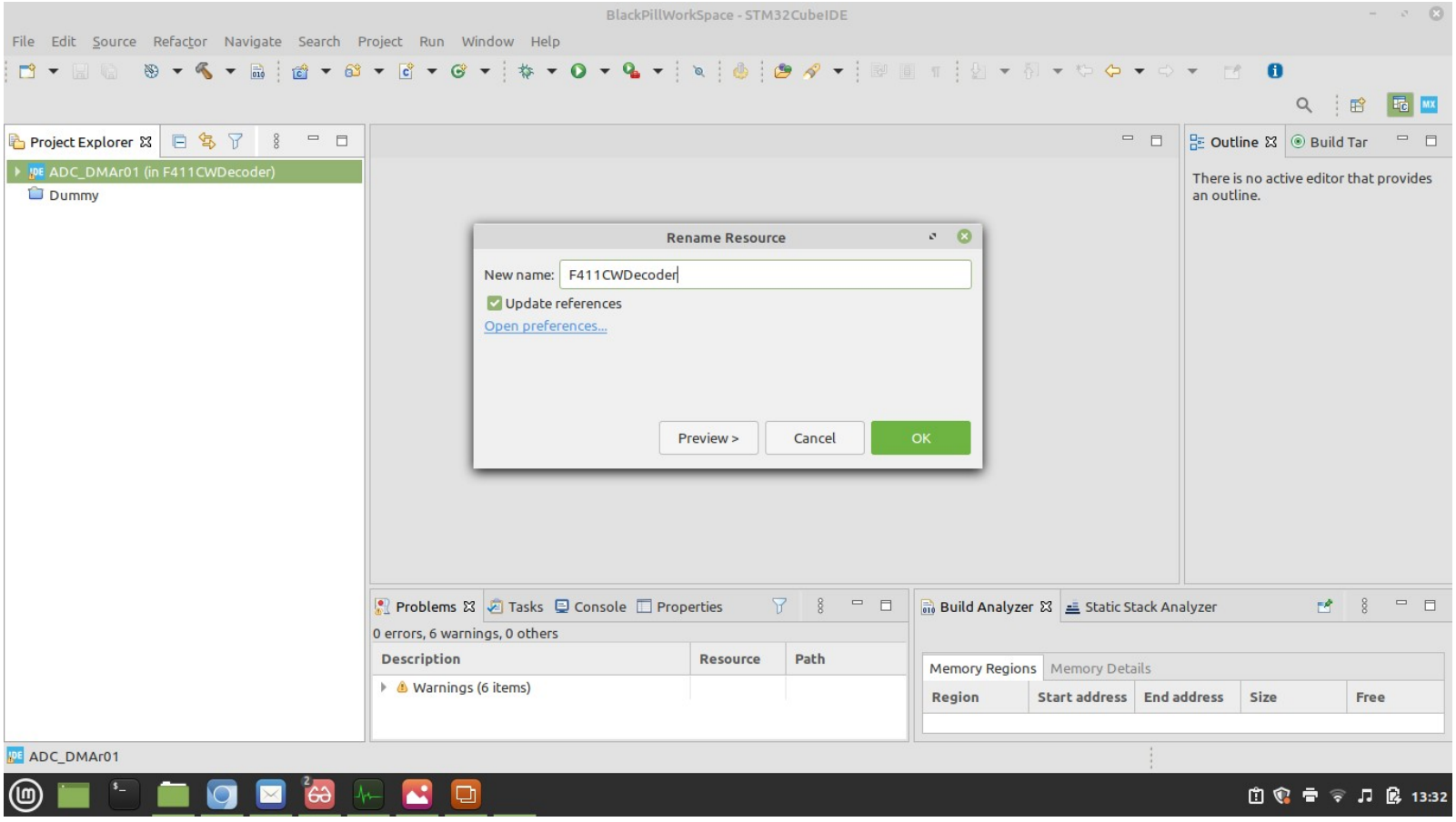
19. Highlight the new project, & right click to expose/select the “Rename” option.



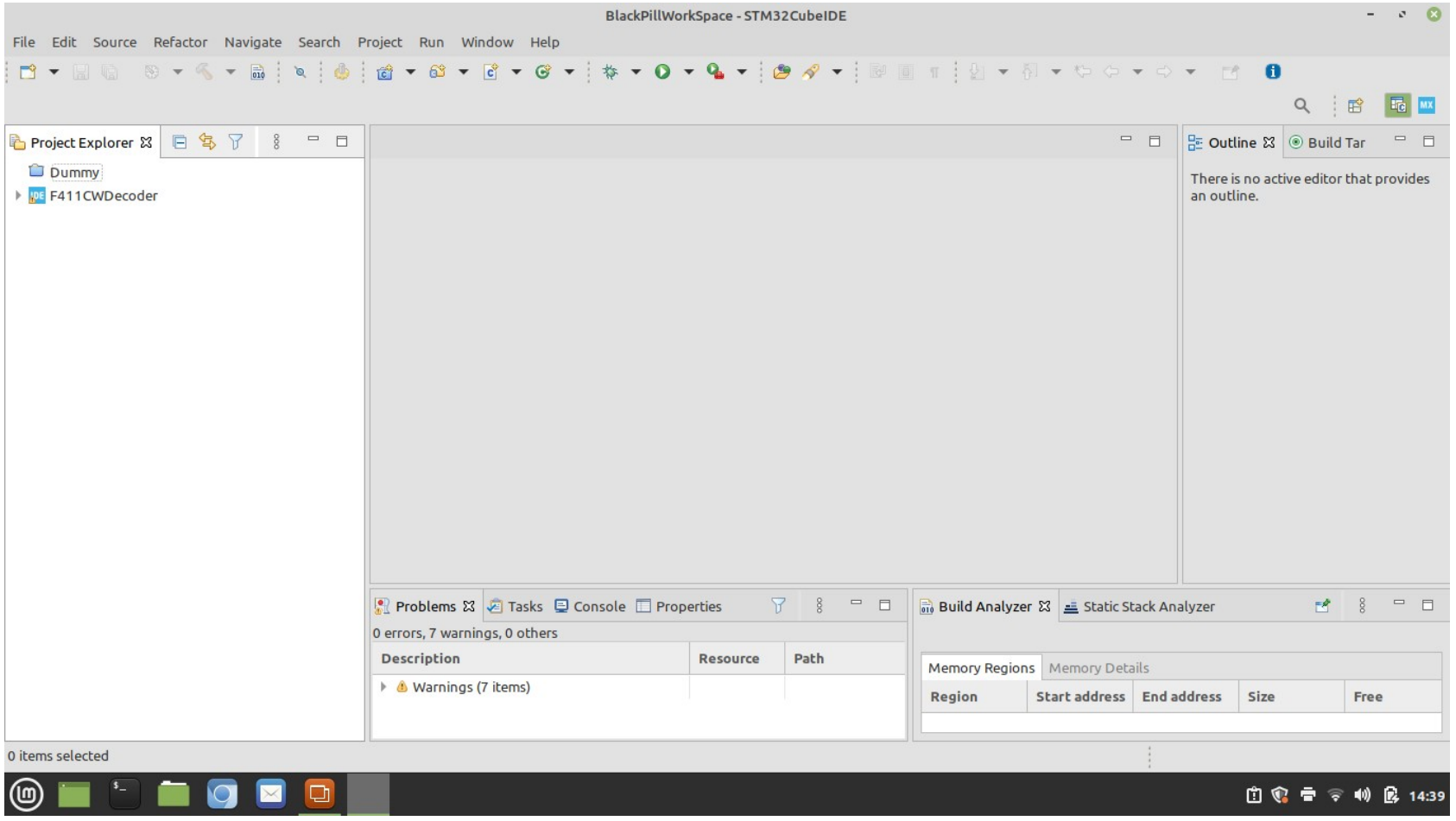
18. You should see this form.



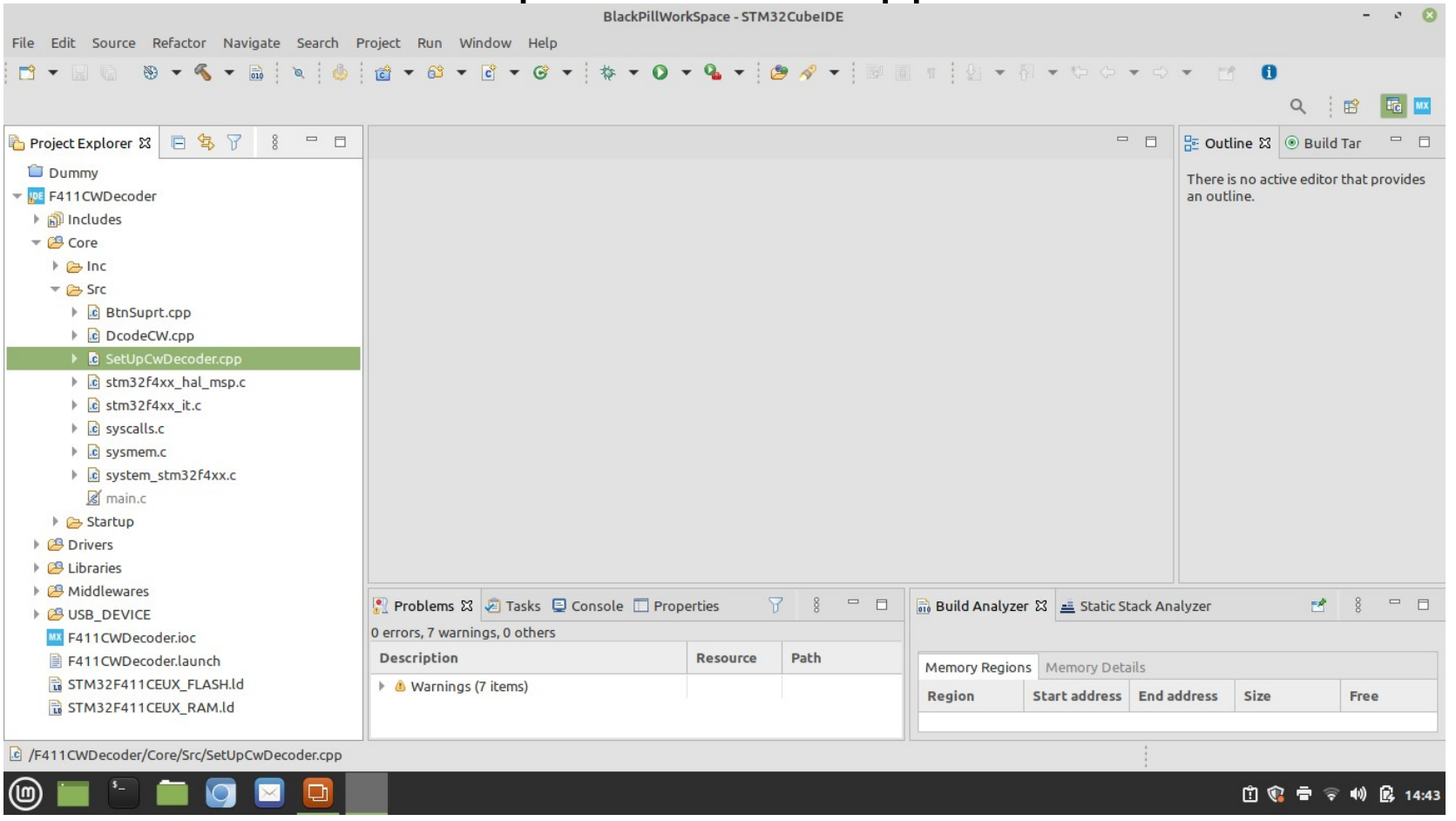
19. Replace original project Name with “F411CWDecoder”, & then click “OK” button



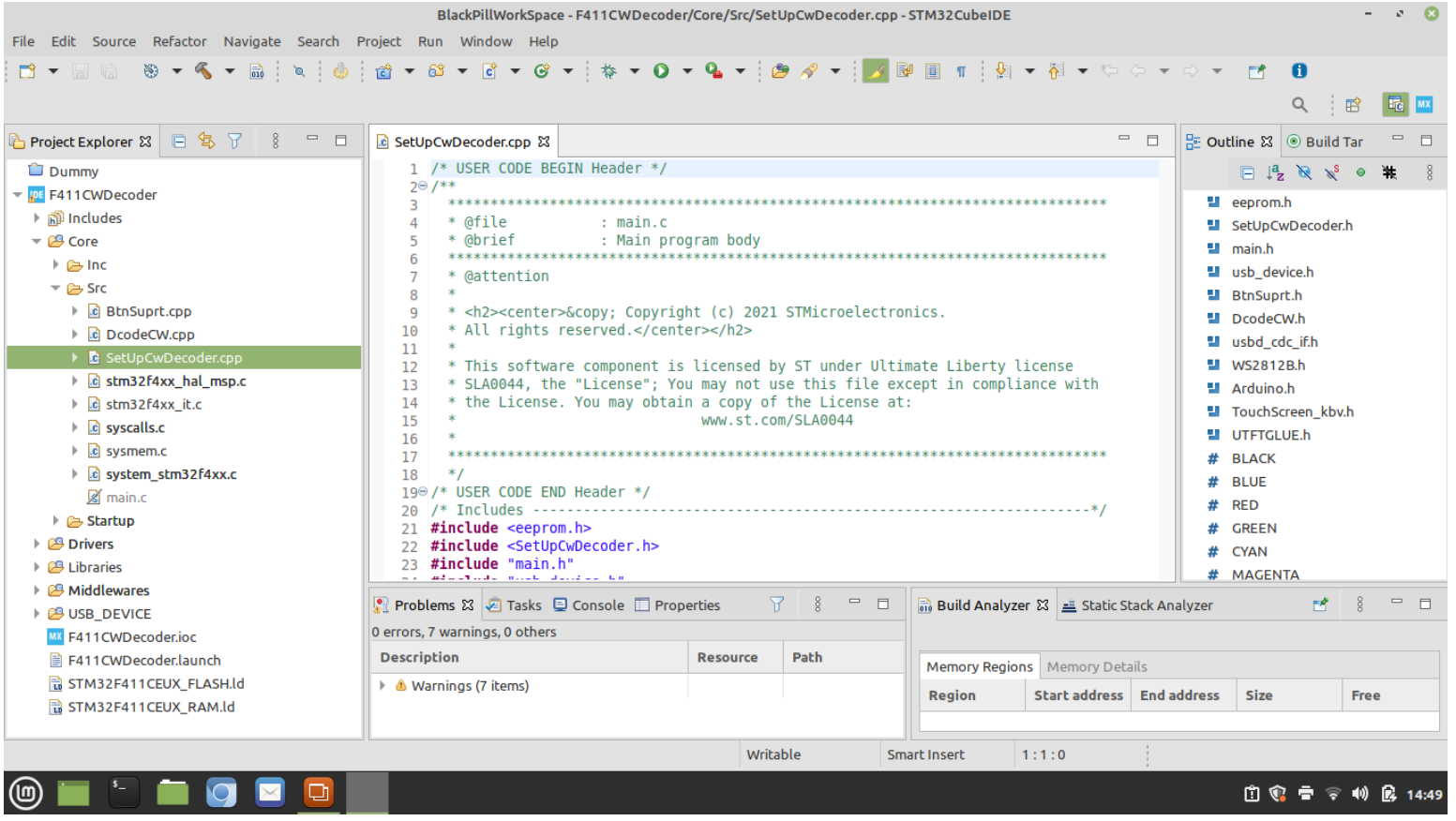
22. After some moments you should see this



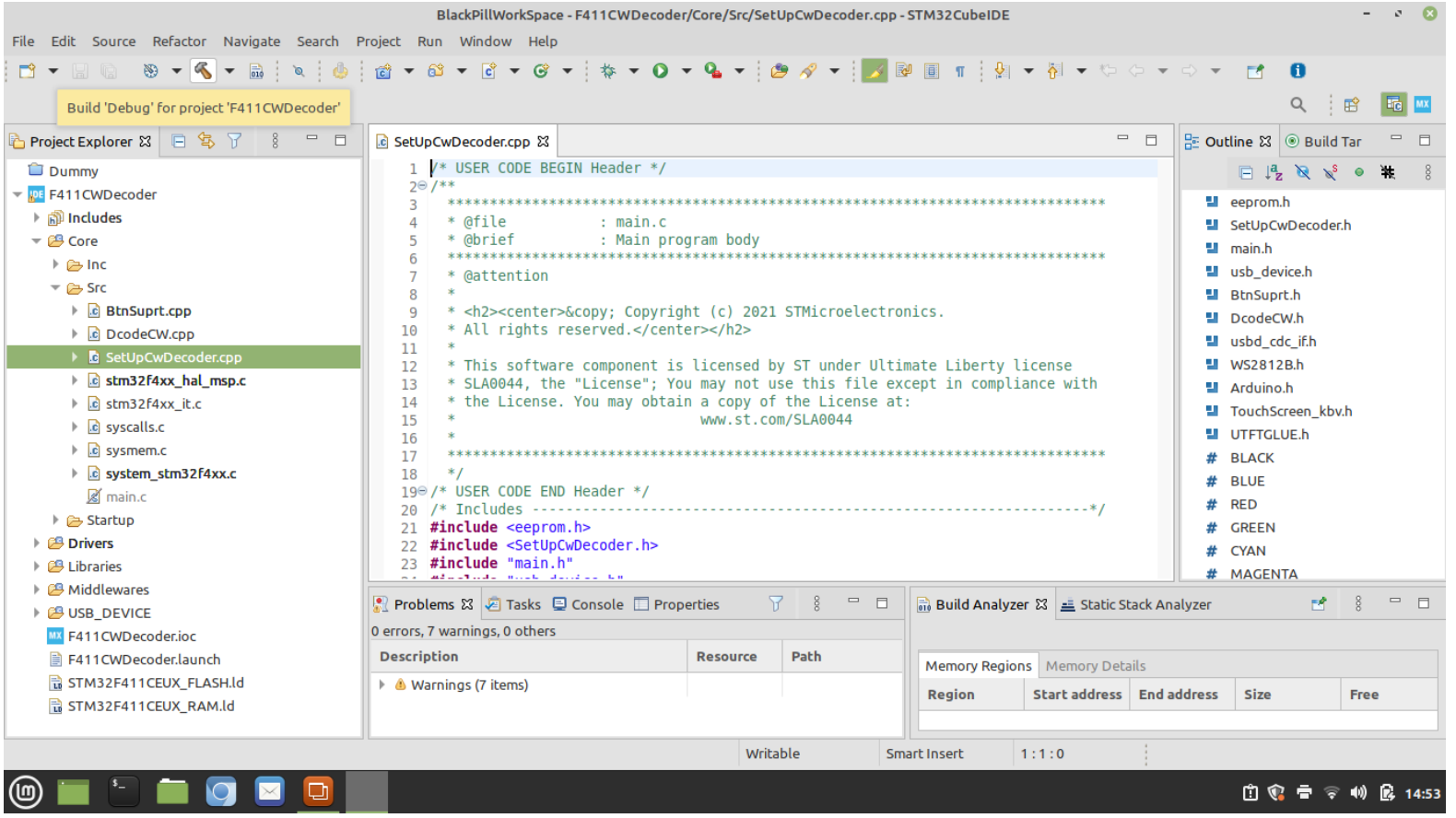
23. Select & drill down into the “F411CWDecoder” project to select “SetUpCwDecoder.cpp” file



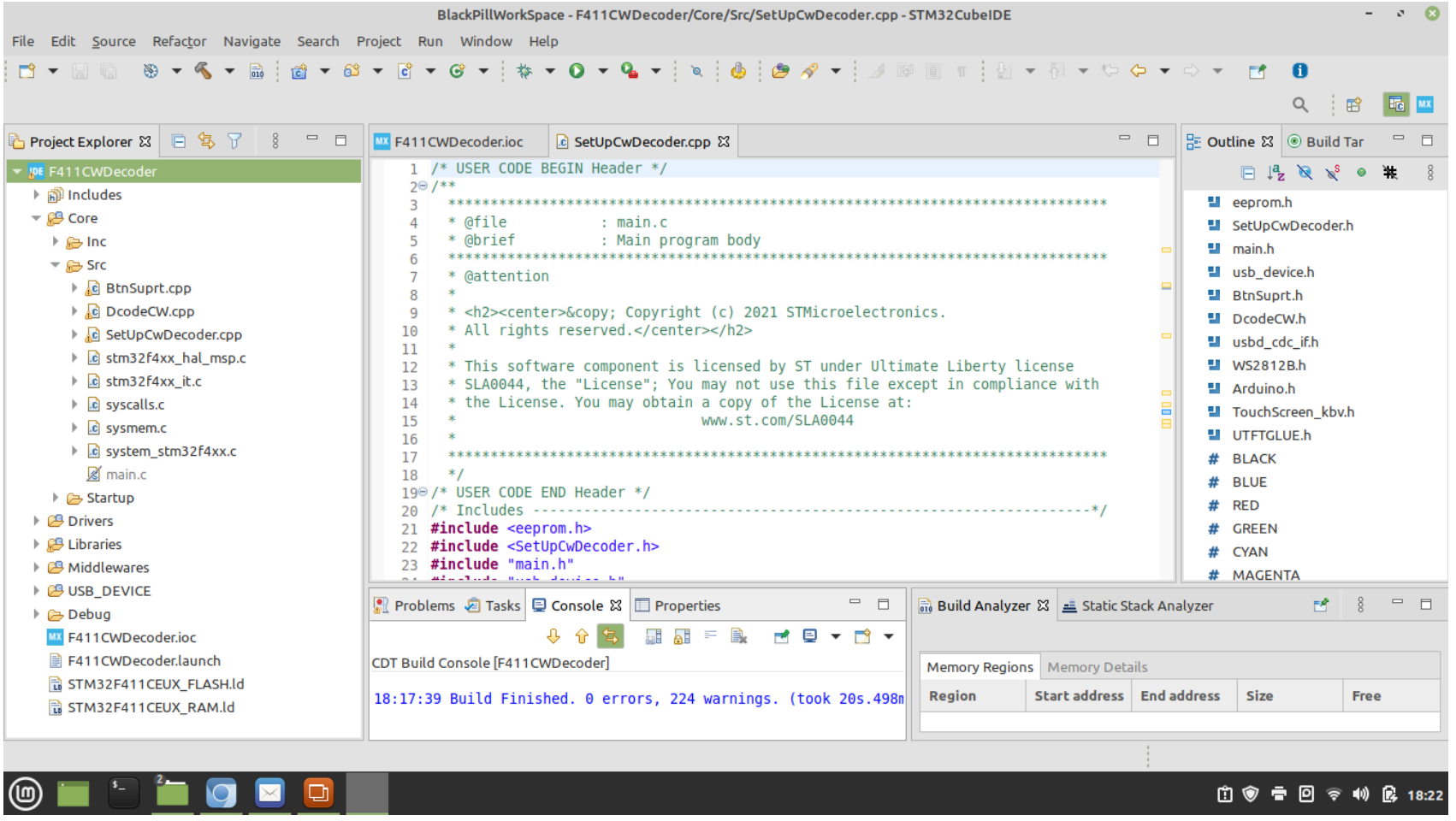
24. Double Clicking the ““SetUpCwDecoder.cpp” entry should look like this.



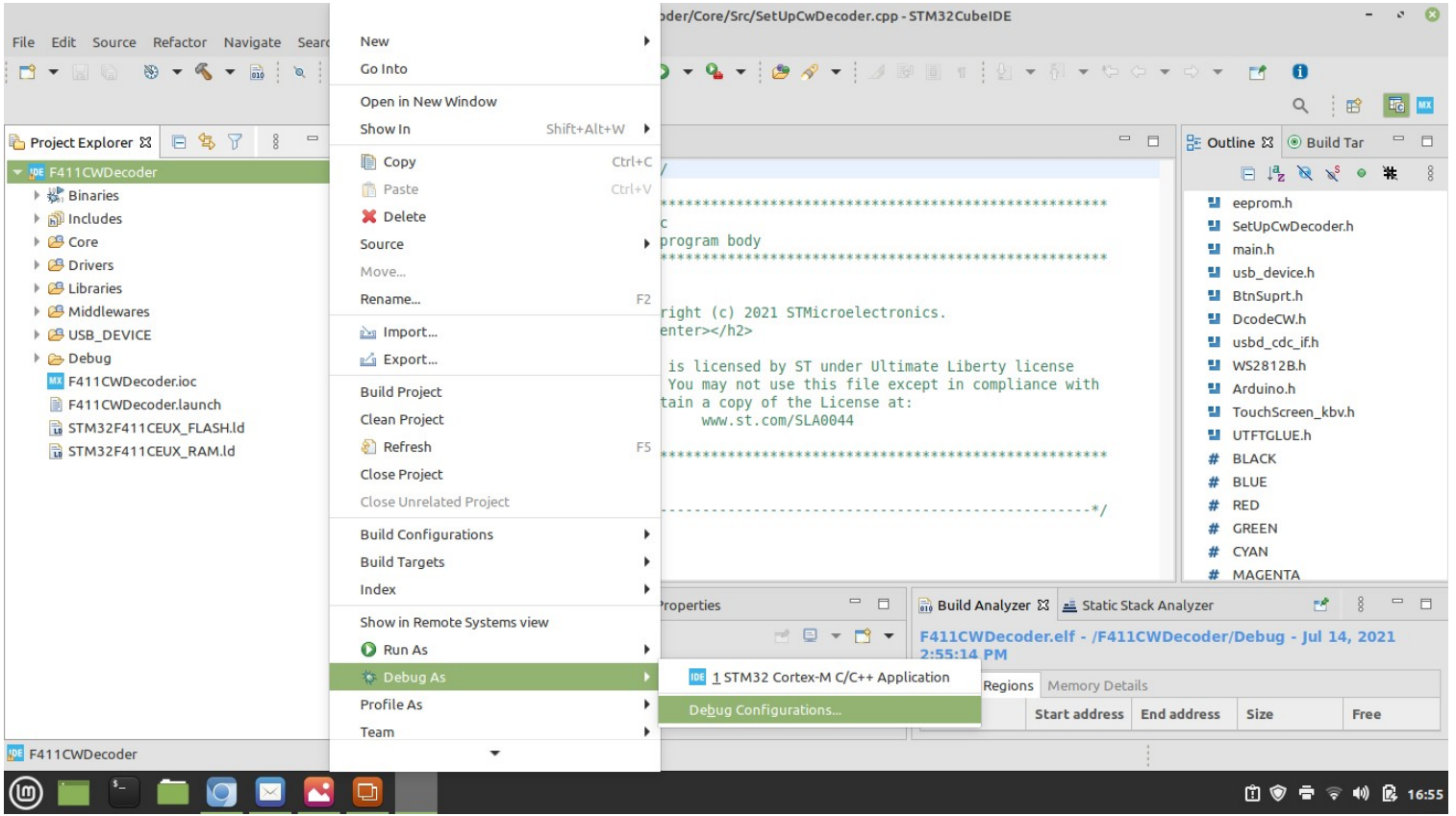
25. Click the “Hammer” icon to build the project



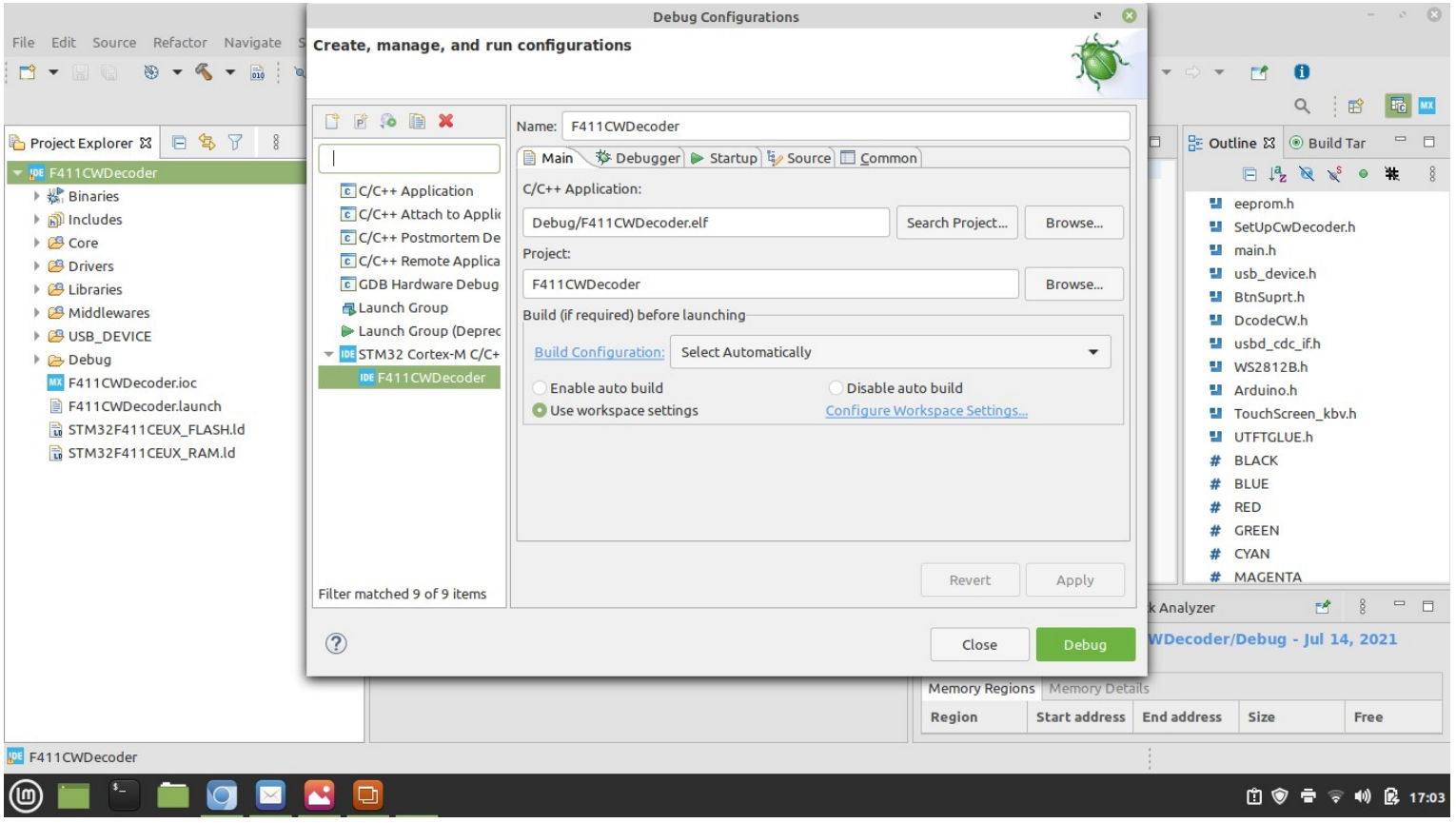
26. Note, when the “Build” process completes, the Console window reads “0 errors”



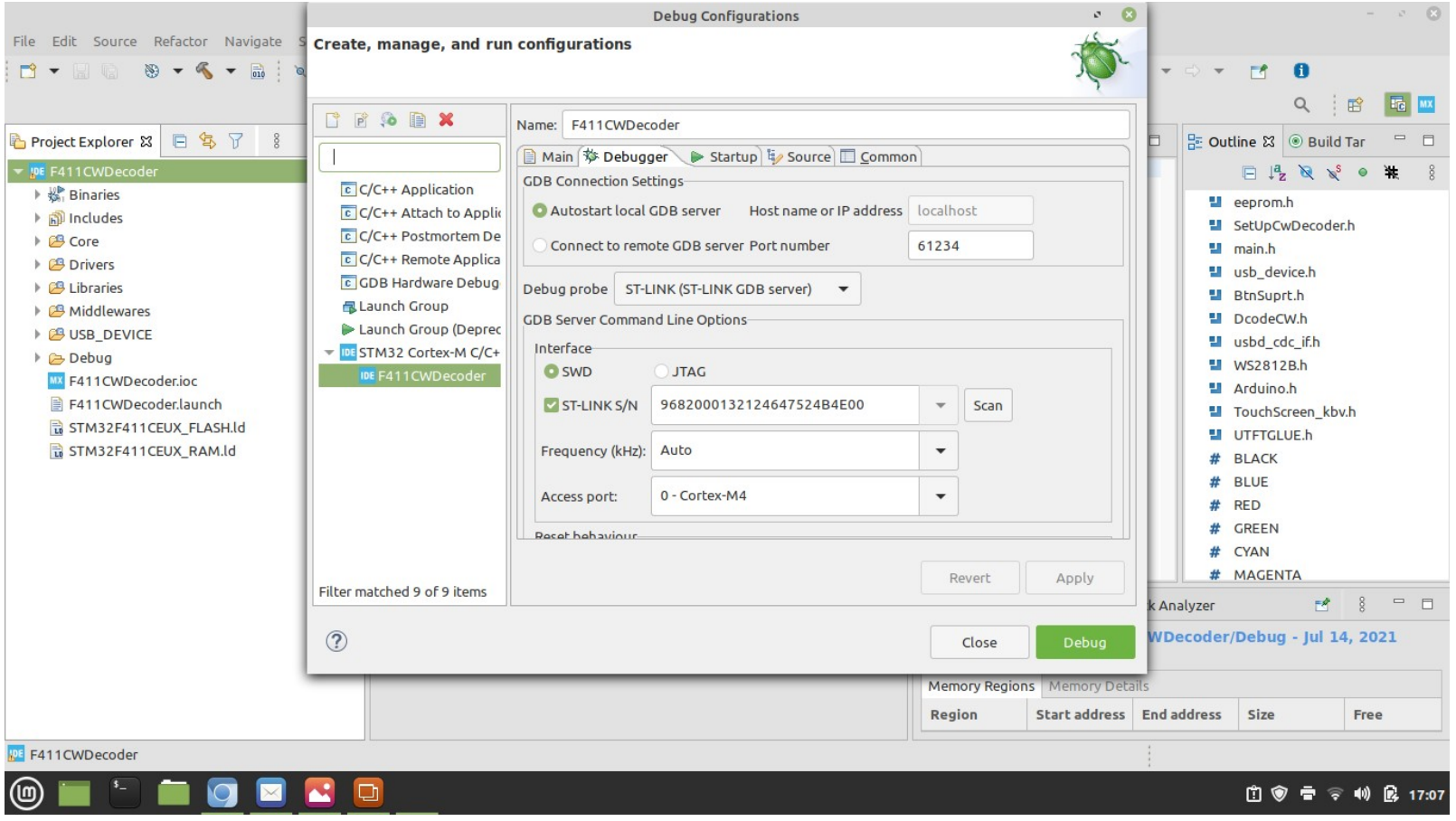
27. Select Project from Project tree. Right click to expose project menu options. And select “Debug Configurations…”, as shown here:



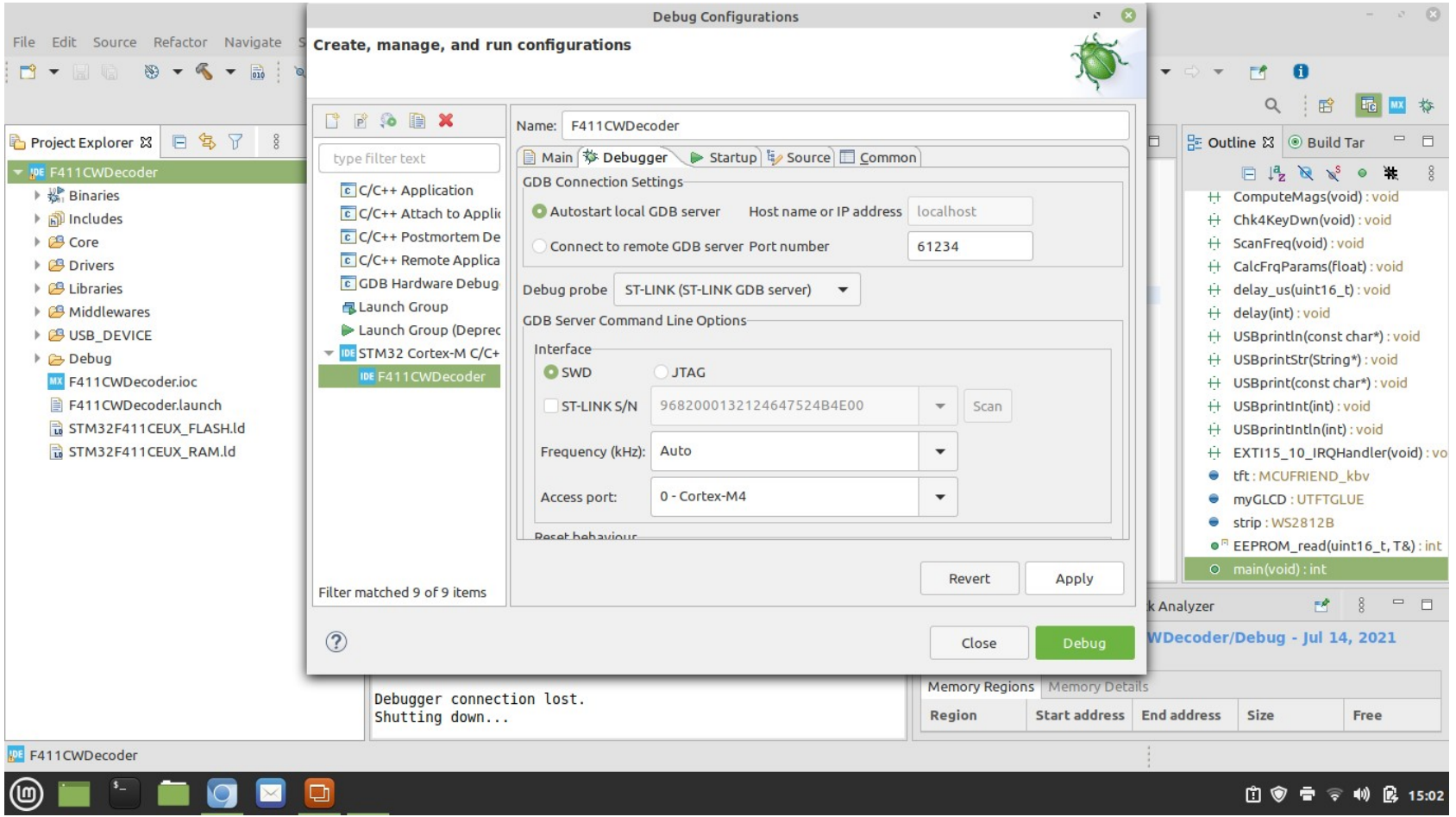
28. Performing step 27 should expose this form



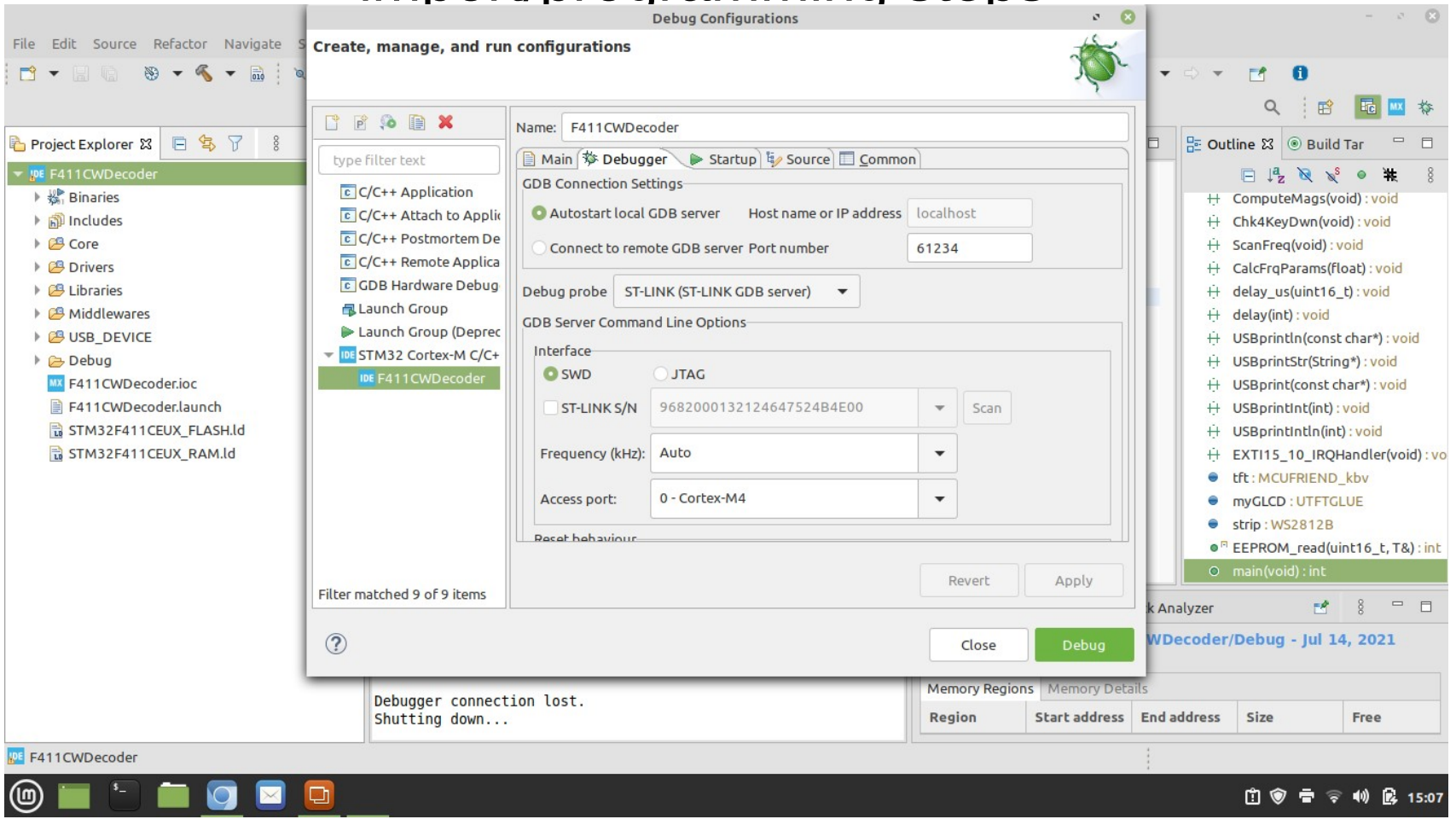
29. Select the “Debugger” tab to see this set of options



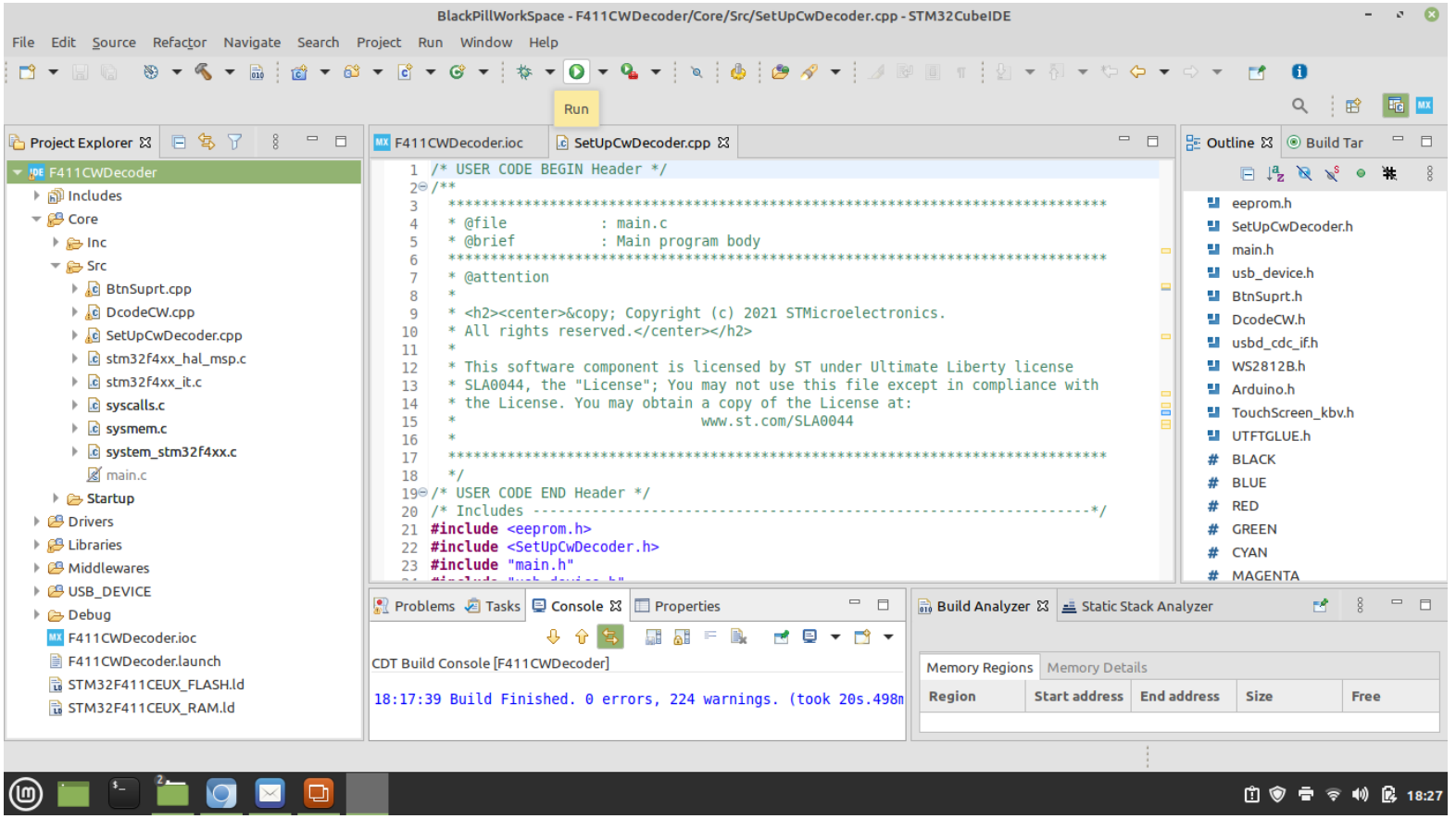
30. “UN-check” the “ST-LINK S/N” box, then click the “Apply” button.



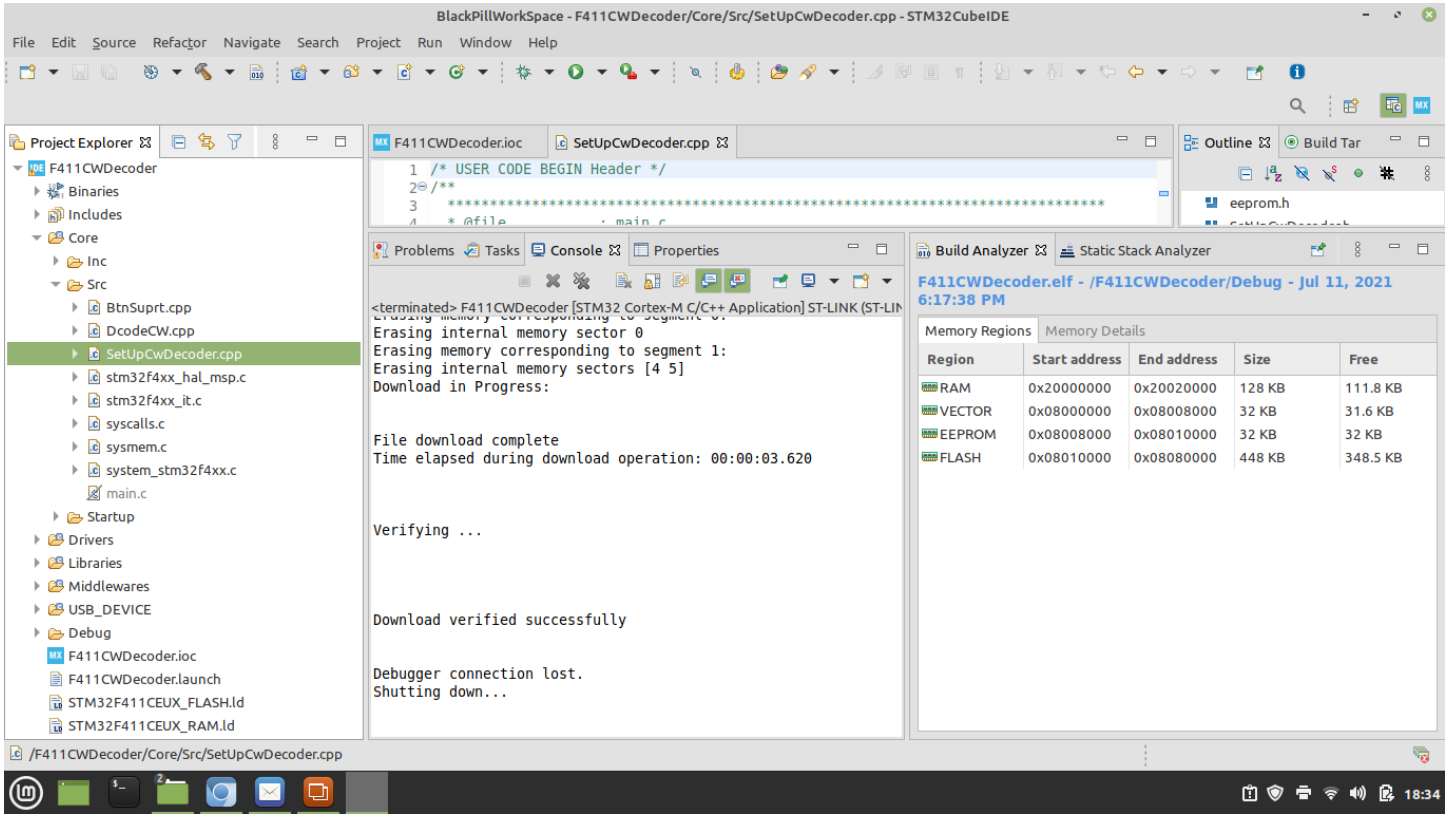
31. Click the “Close” button, & proceed with the remaining import/programming steps



32. Now with the Black Pill connected to the computer via the STLink dongle, click the “Run” icon:



33. When performing Step 32 you may need to simultaneously press the Black Pill's "Boot" Button. The "Console" window on a successful "load" should read as shown here:



34. If hardware is connected & working you should now have Display that looks like this:

35. On first time Startup, long press the Decoder's "Clear" button to access the "Settings" screen. Load & Save the "FACTORY VALS". Once done the decoder should be ready to decode.