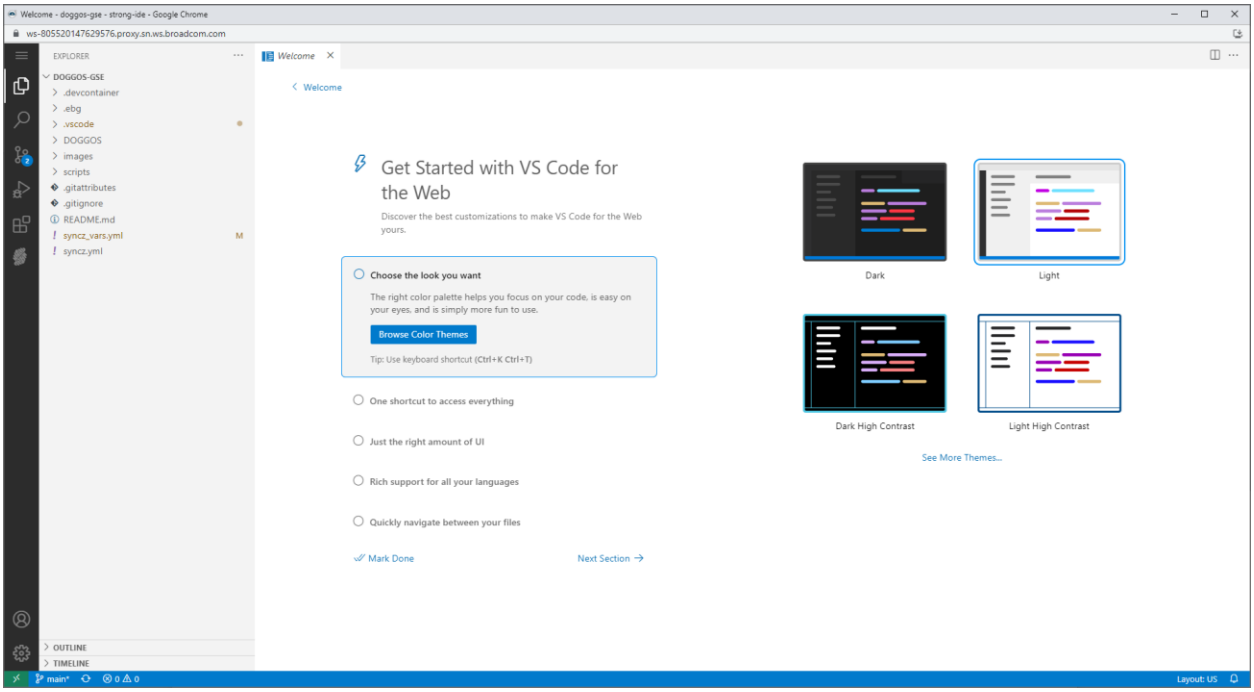
Dev/Ops Workshop – Dump Reading

In this lab exercise the student will perform the following tasks:

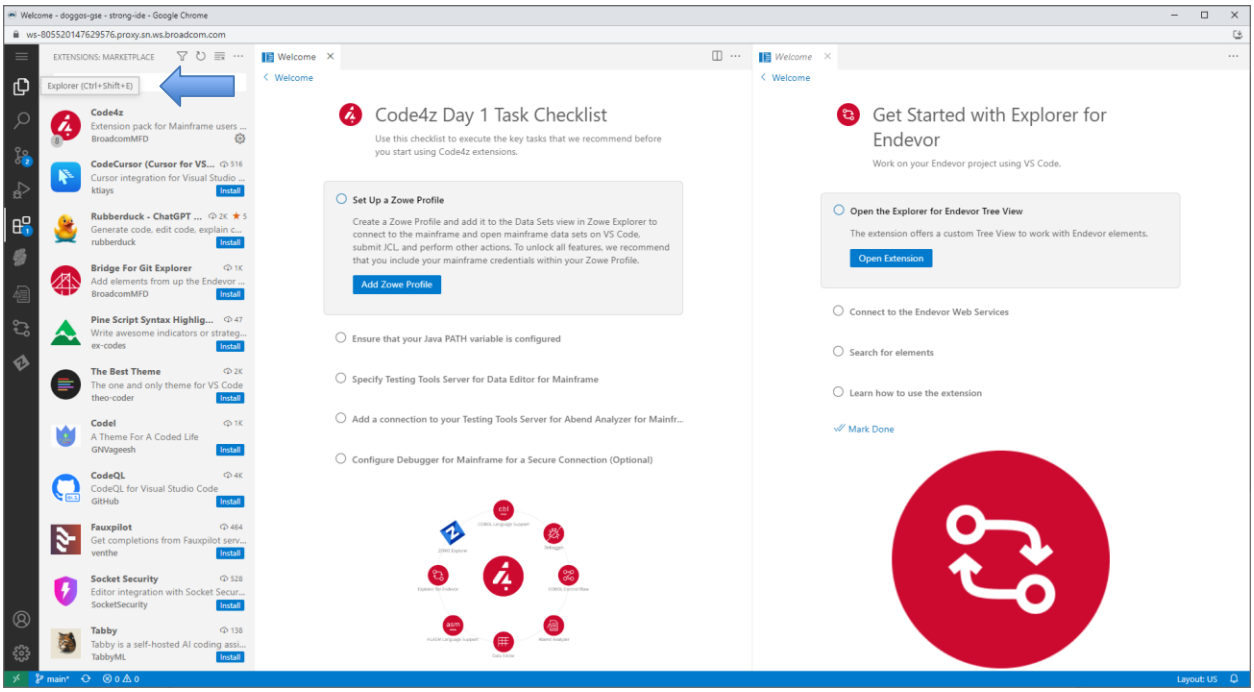
1. Sign on to an assigned workspace.
2. Review Abend Analyzer configuration.
3. Open a dump and shoot the problem.

Start up:

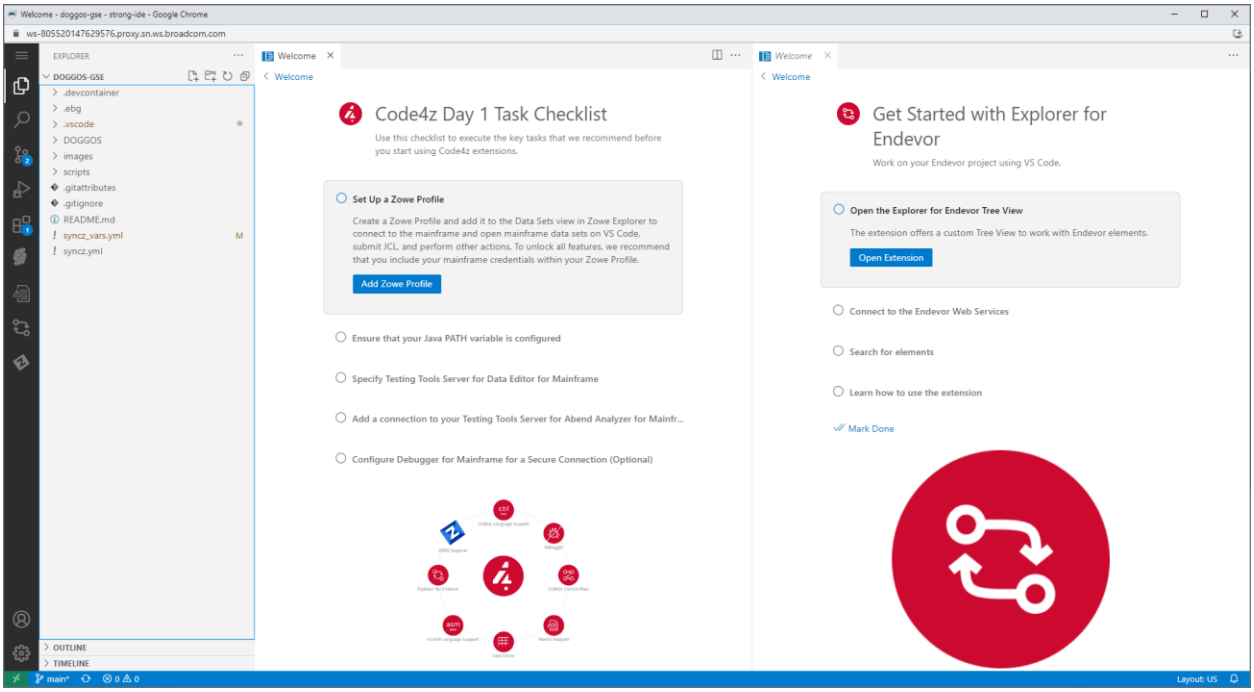
1. At this point you are now in your workspace in a VS Code session.



At this point you are ready to start the workshop. Make sure you are at the Explorer view click on the extension that looks like two pieces of paper.

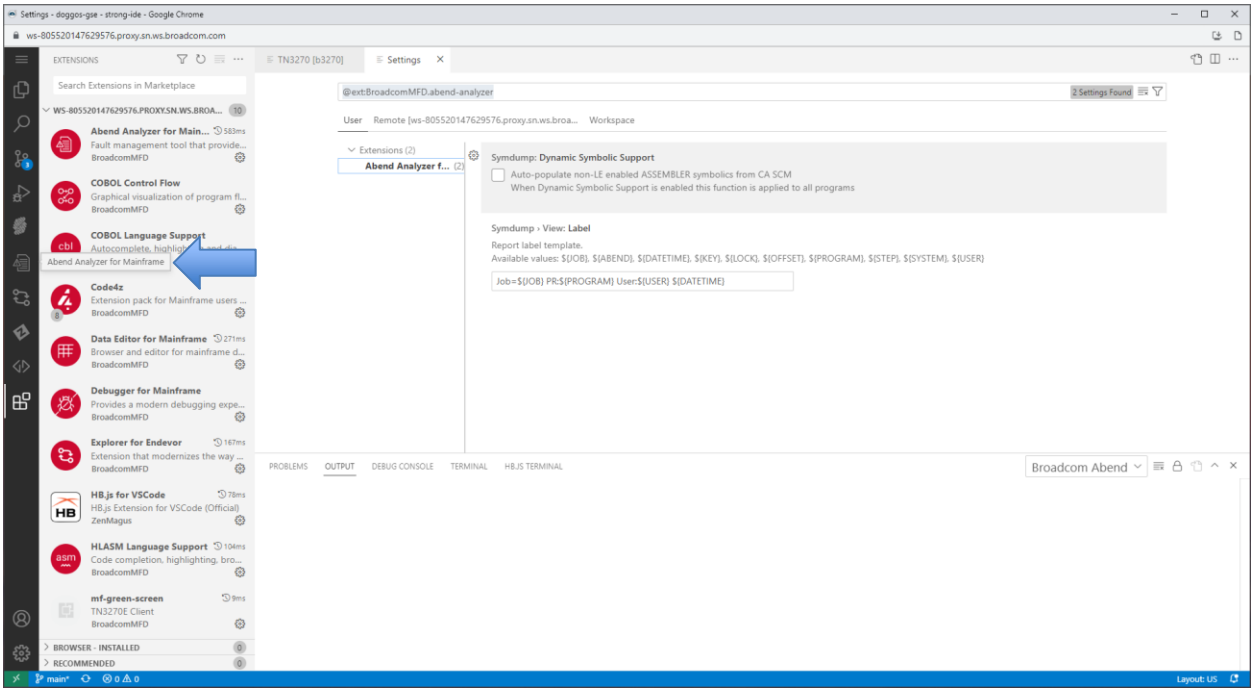


It will return you to the main view.

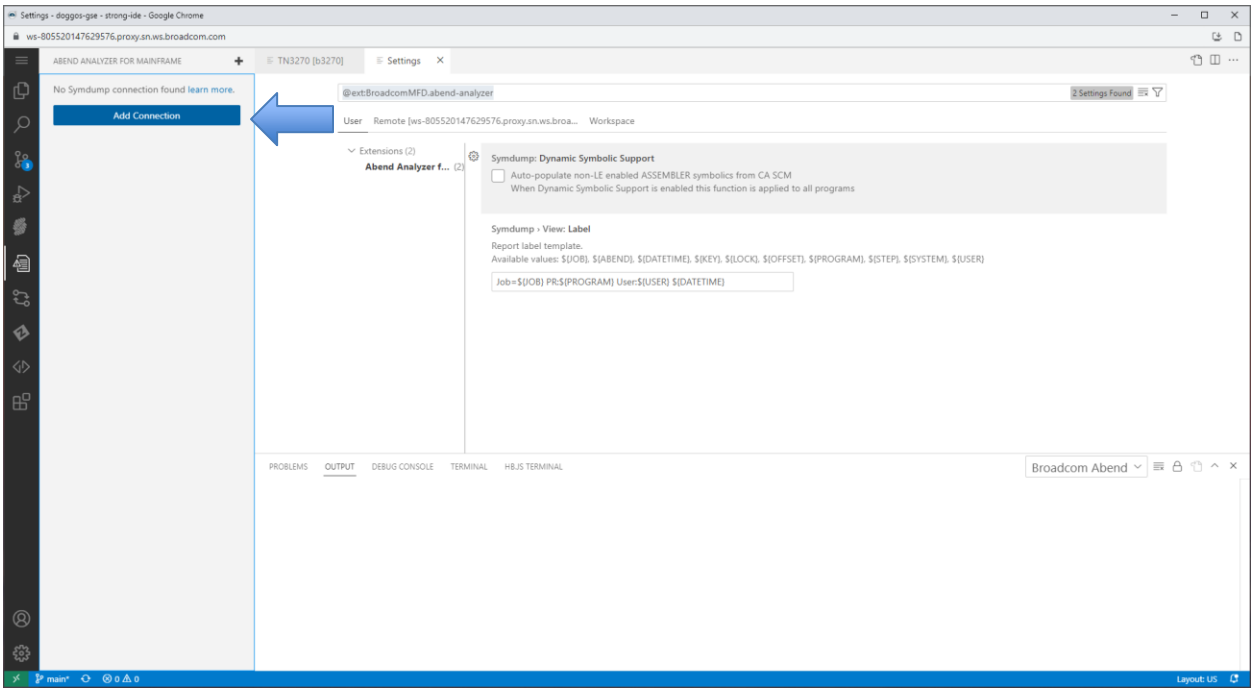


Configuring Abend Analyzer:

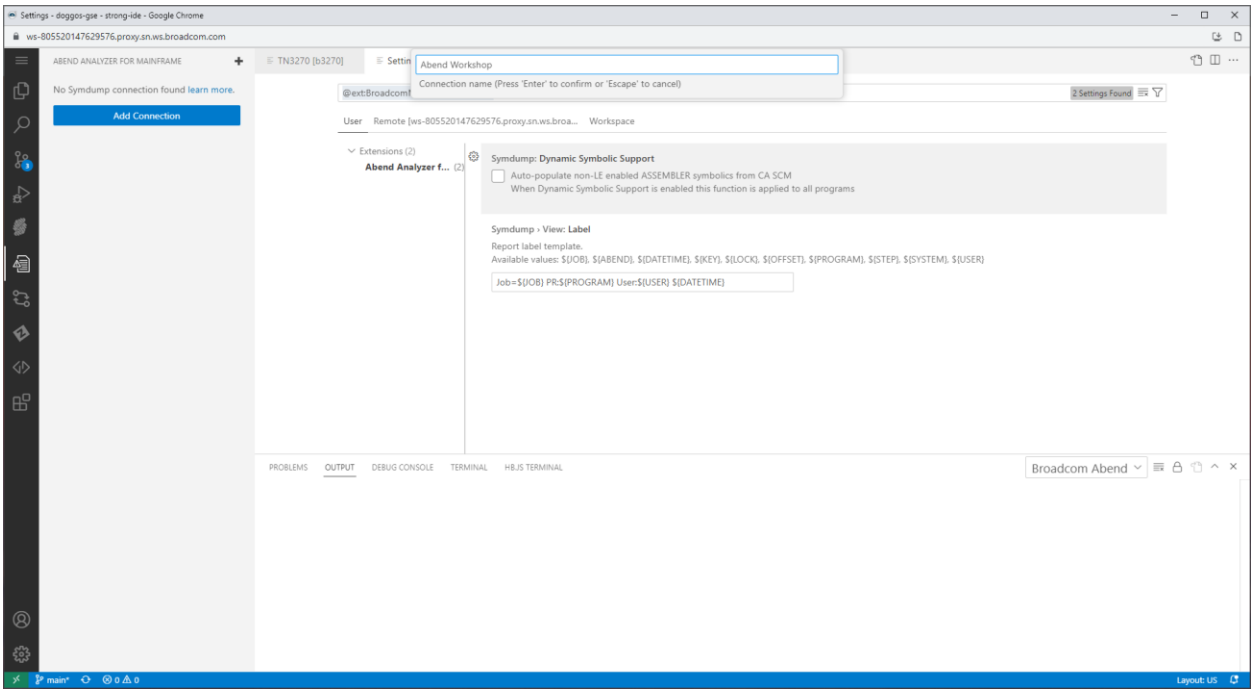
In this section the student will see the setup Abend Analyzer. This part has been completed already.



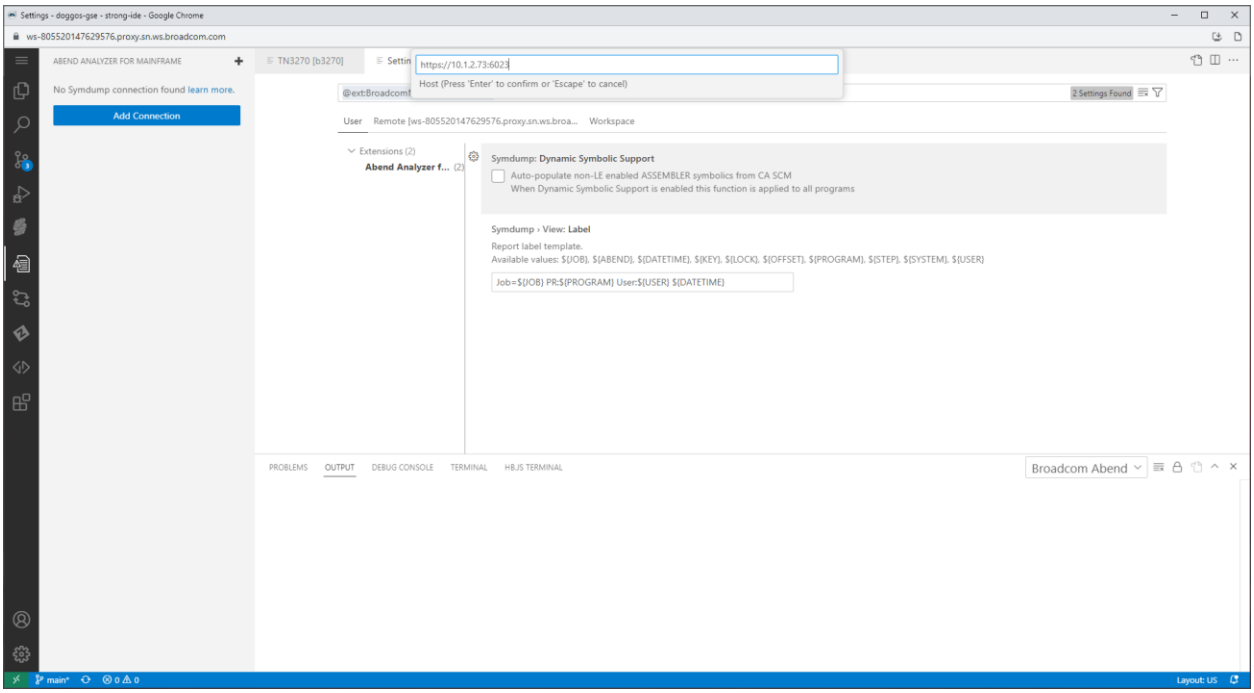
This will bring up screen that a mainframe connection can be added.



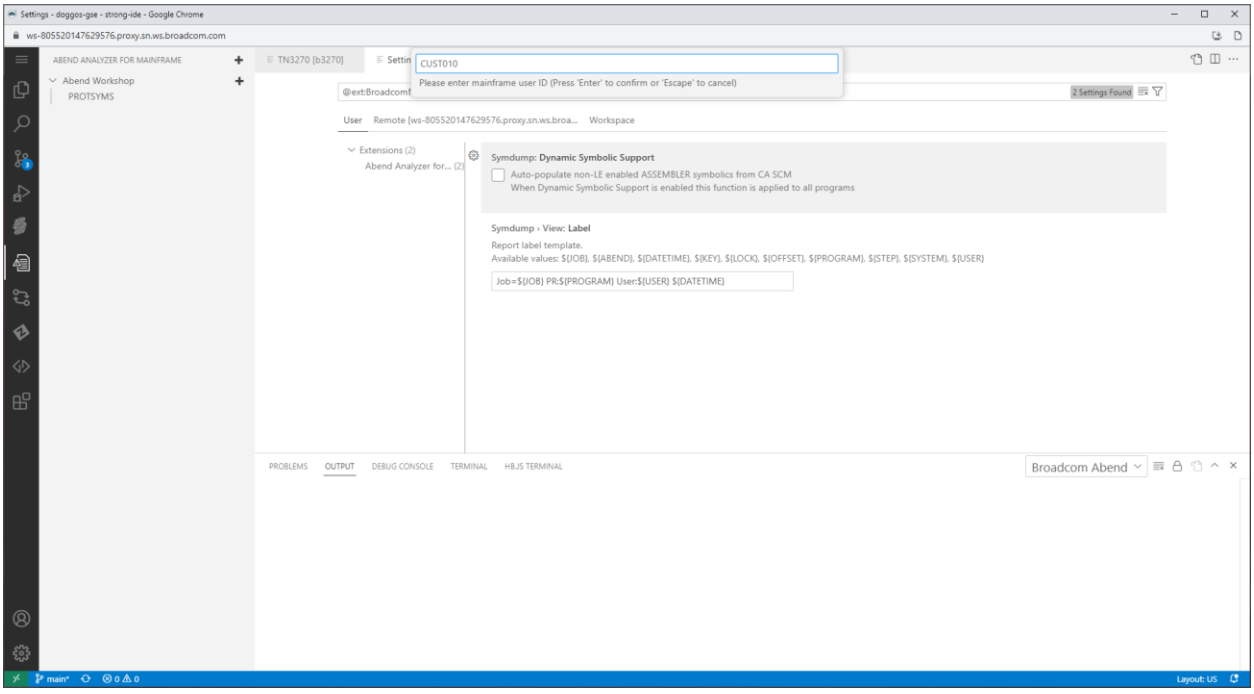
This will bring up a pop up box where the name of the connection has to be added. Provide any name (DEMO).



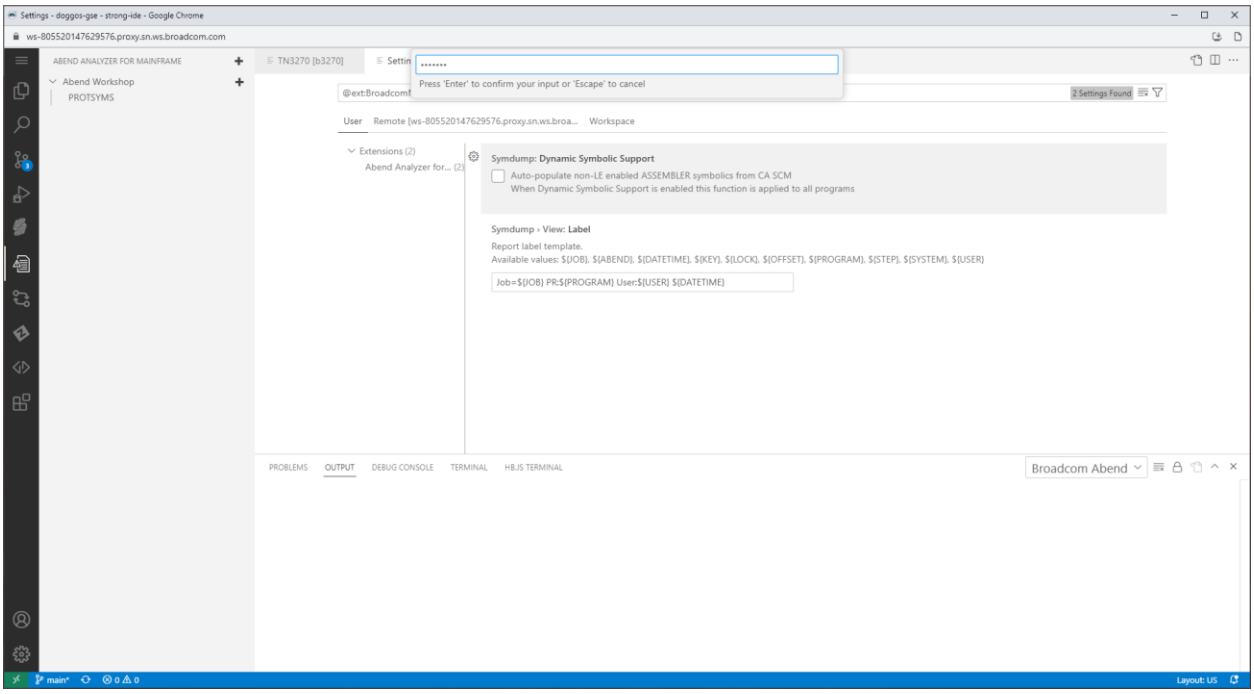
The next window that will pop up is the Host Name. For example https://10.1.2.73:6023



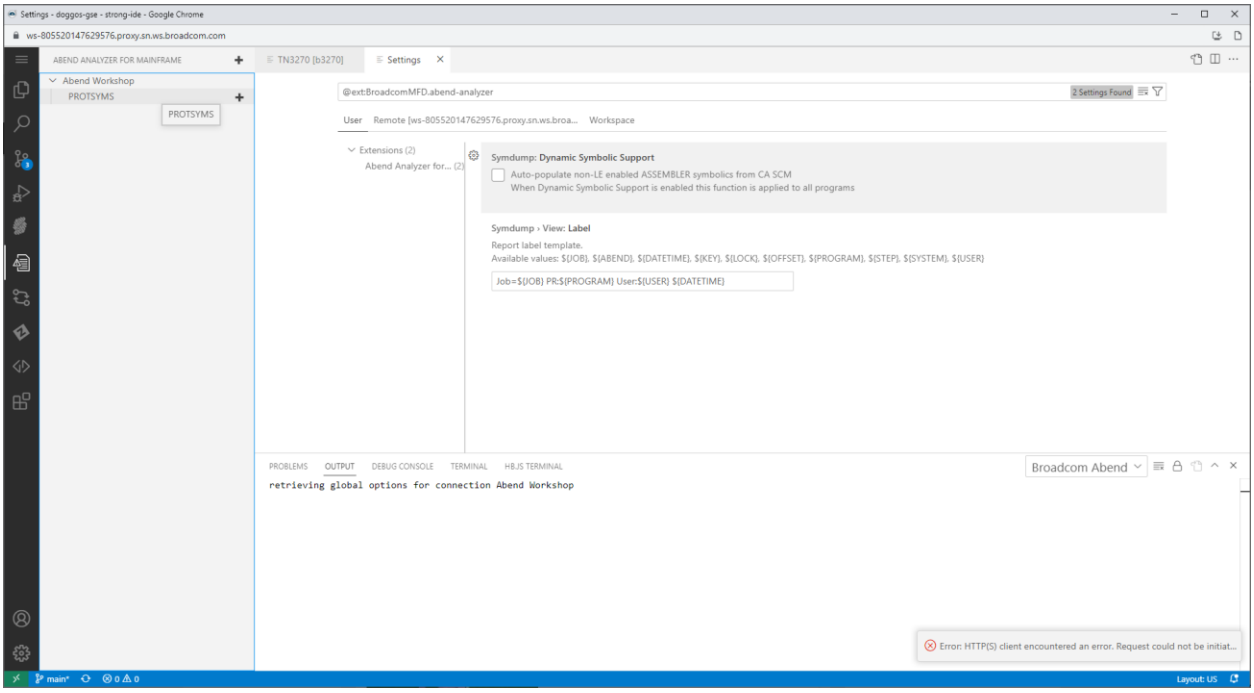
The next pop up will ask for a user ID. Your USERID was provided earlier. CUST0nn.



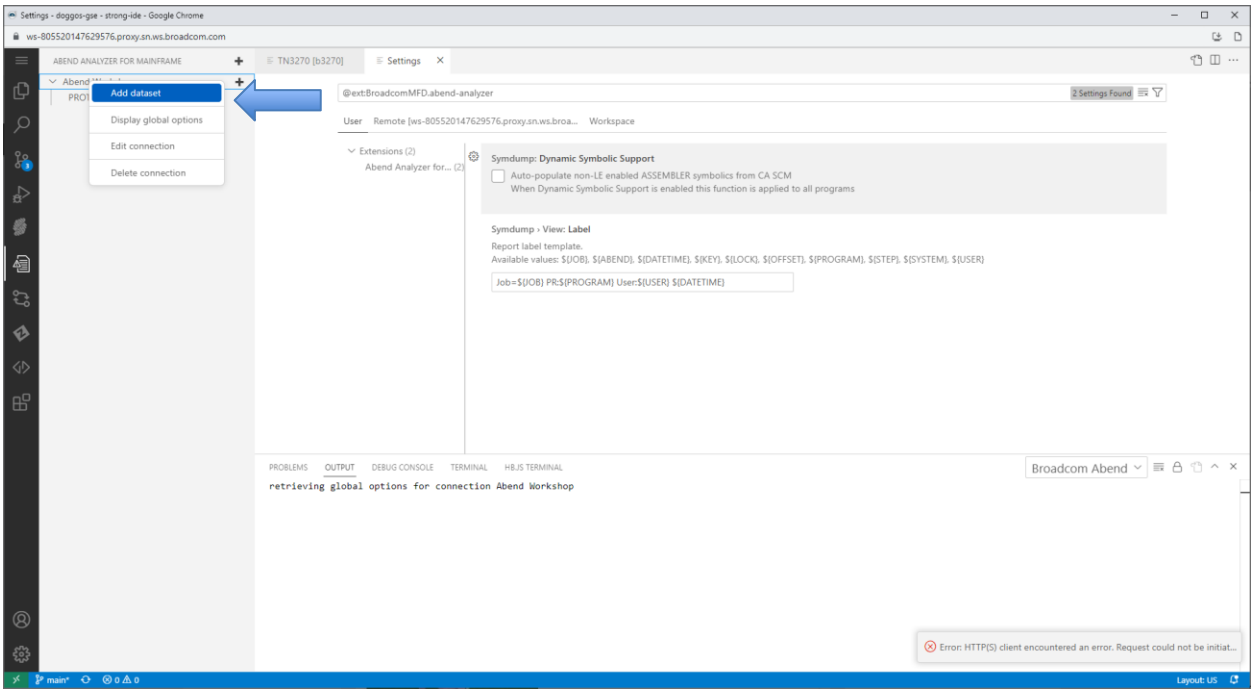
The next pop up will ask for a password. The Password is the same as the userid.



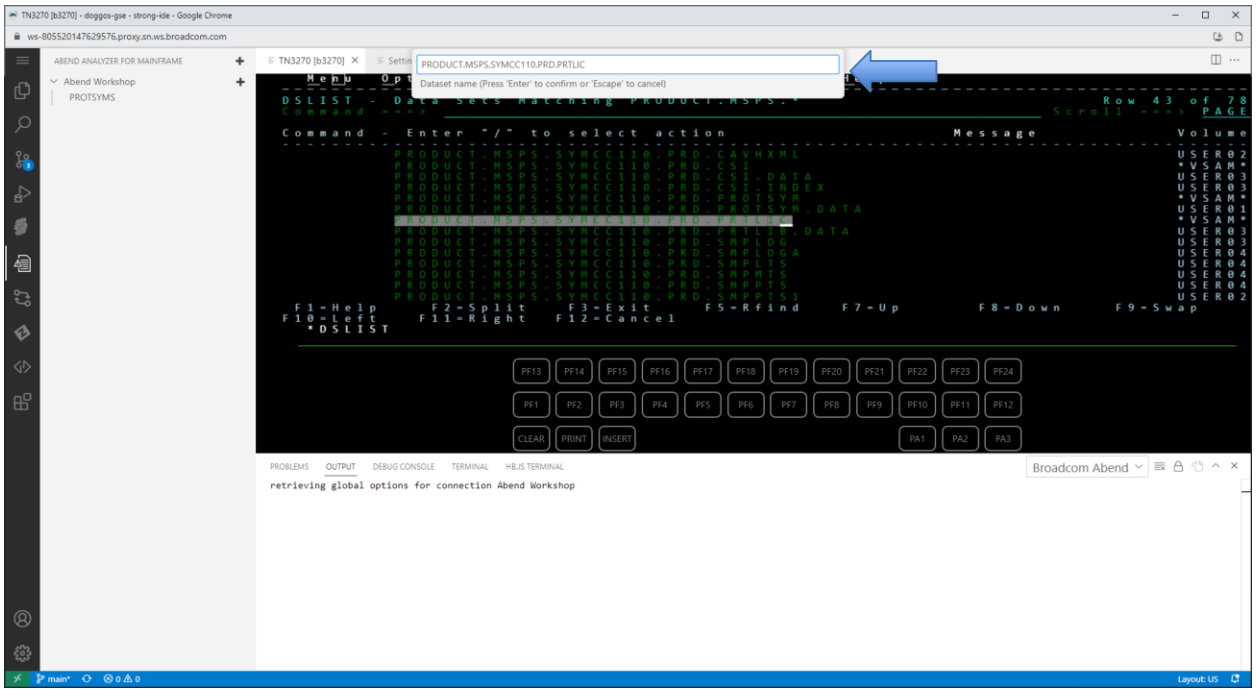
Notice now under ABEND ANALYZER FOR MAINFRAME you have the connection name and the PROTSYMS.



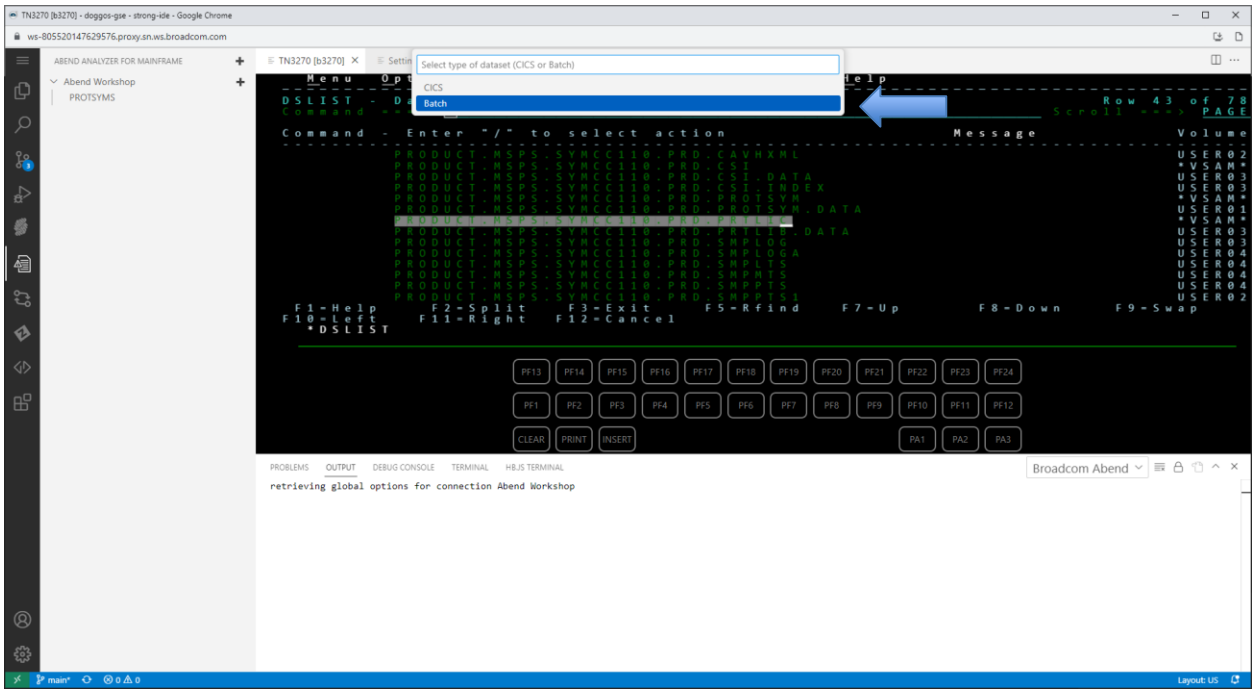
Now a prtlib dataset has to be added. The prtlib is where the dumps printouts are stored. To do this you would just right click on Abend Workshop and select Add dataset.



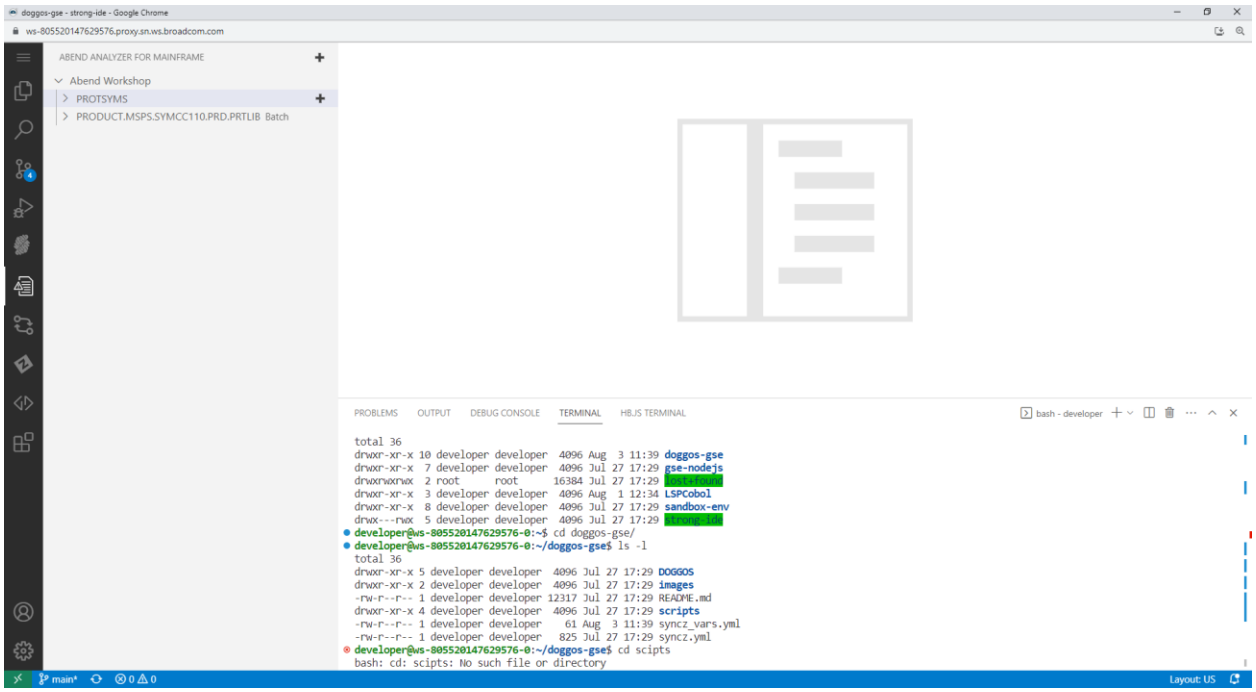
Add the dataset in the pop up box. The dataset name is as follows: PRODUCT.MSPS.SYMCC110.PRD.PRTLIB



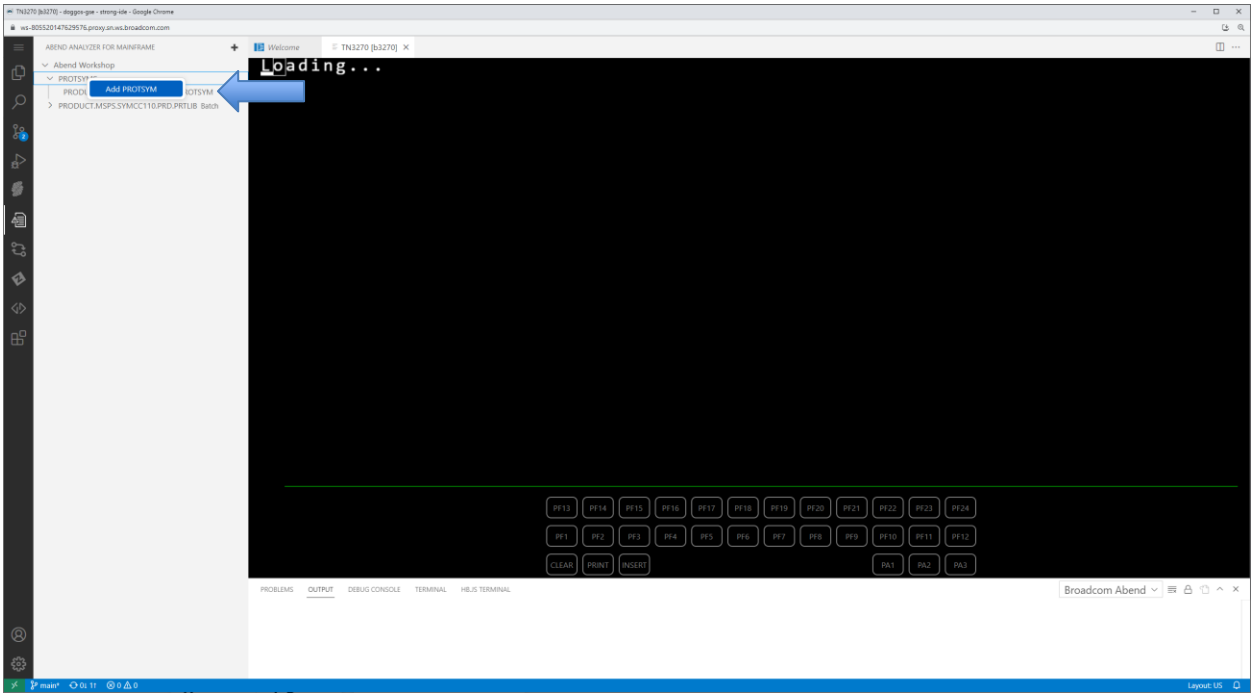
Then Abend Analyzer needs to know if these dumps are batch or CICS. For this workshop batch dumps were captured.



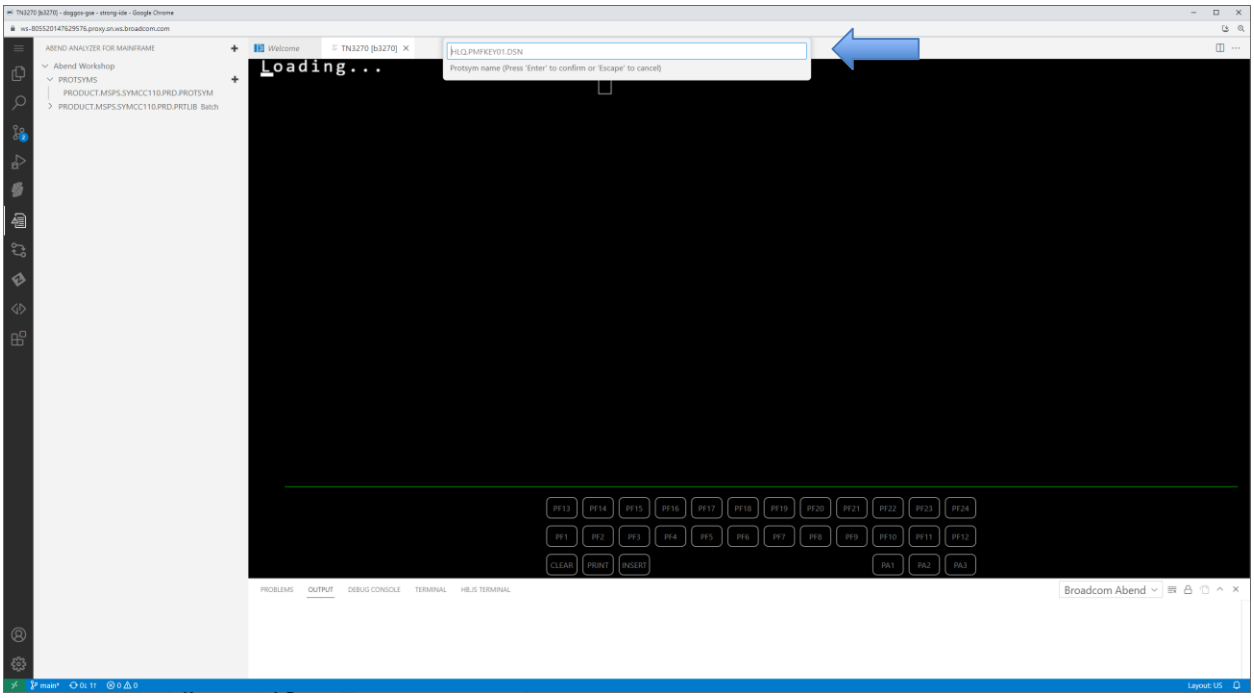
That will return with the prtlib added to Abend Analyzer.



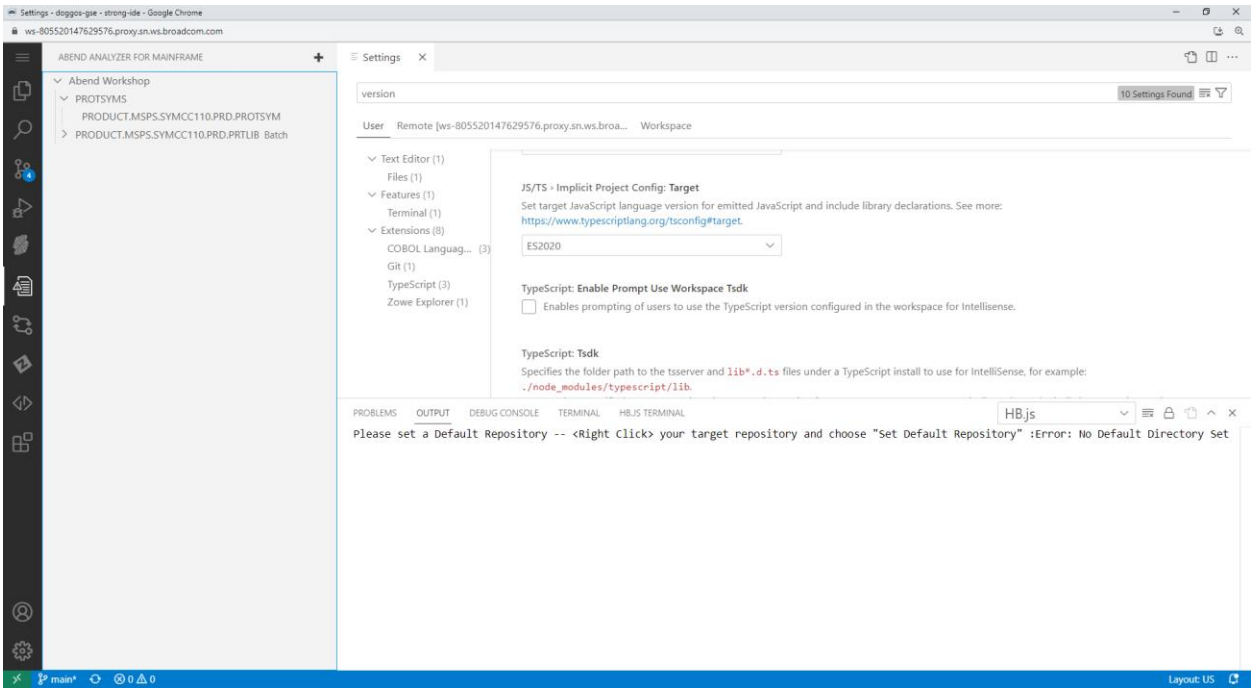
The next file that needs to be added is the PROTSYM. This file is where the compiled version of the COBOL program is stored. To add the PROTSYM file right click the PROTSYMS on the left. Then click the Add PROTSYM button.



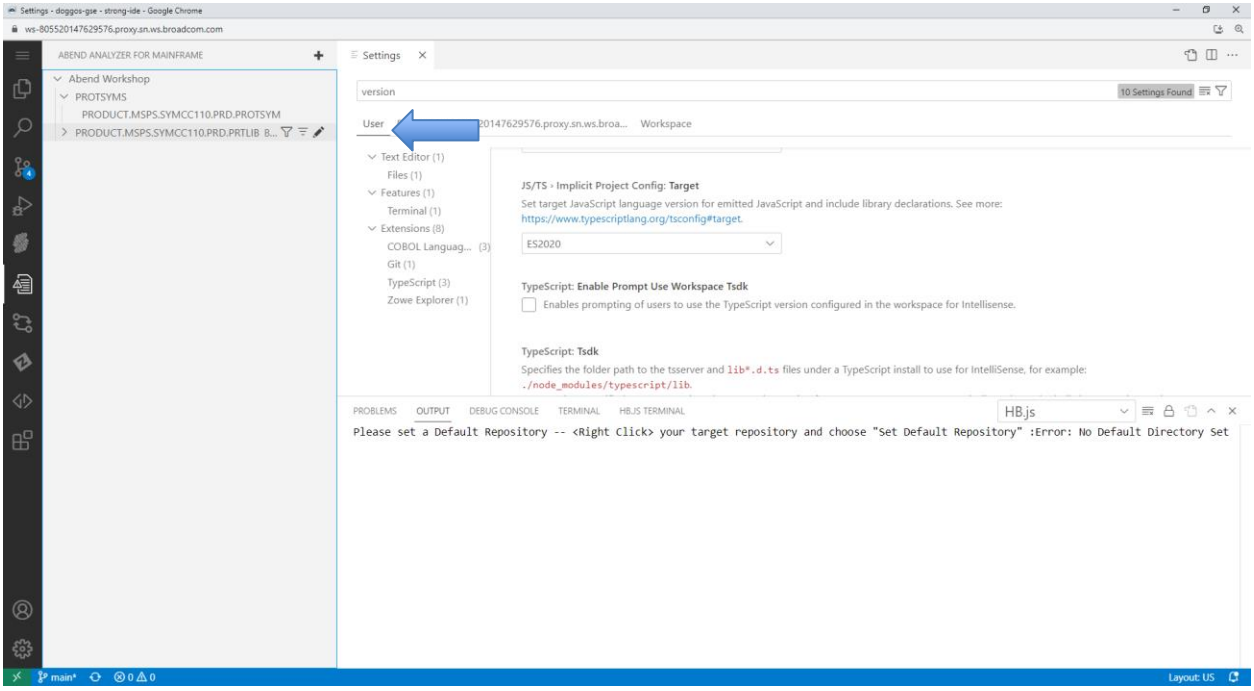
The following popup will appear on screen. Add the PROTSYMS dataset PRODUCT.MSPS.SYMCC110.PRD.PROTSYM



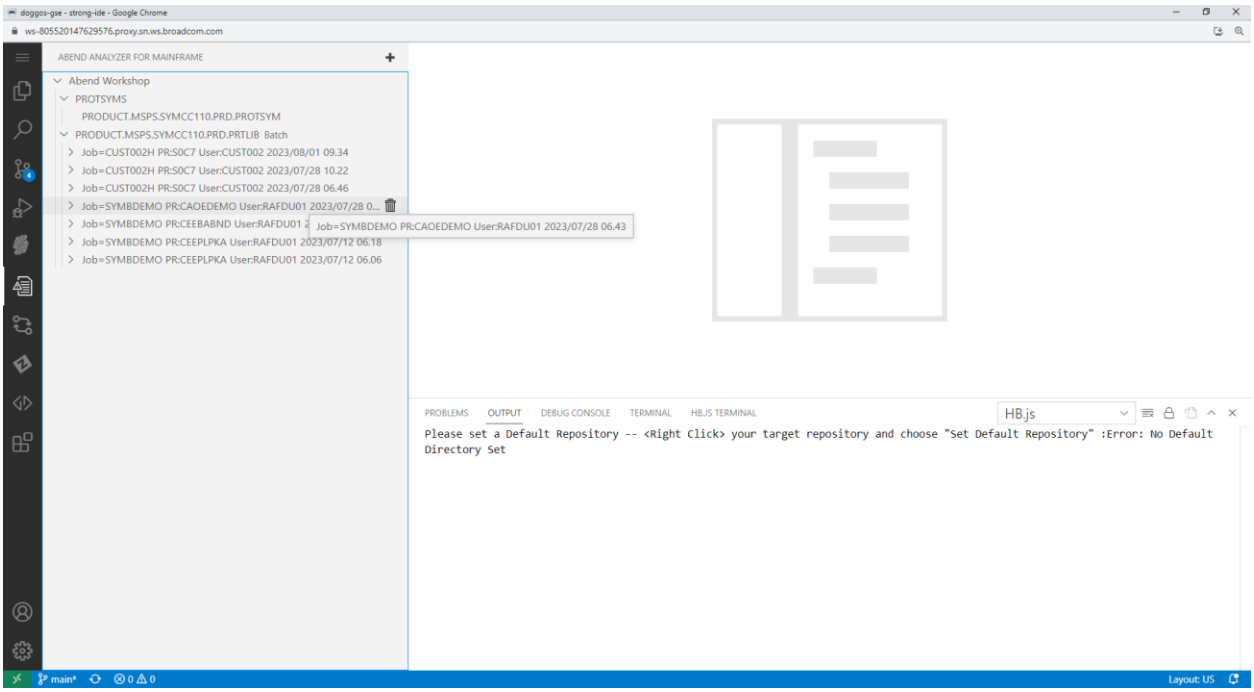
After pressing enter you will see the PRTLIB and PROTSYM files listed.



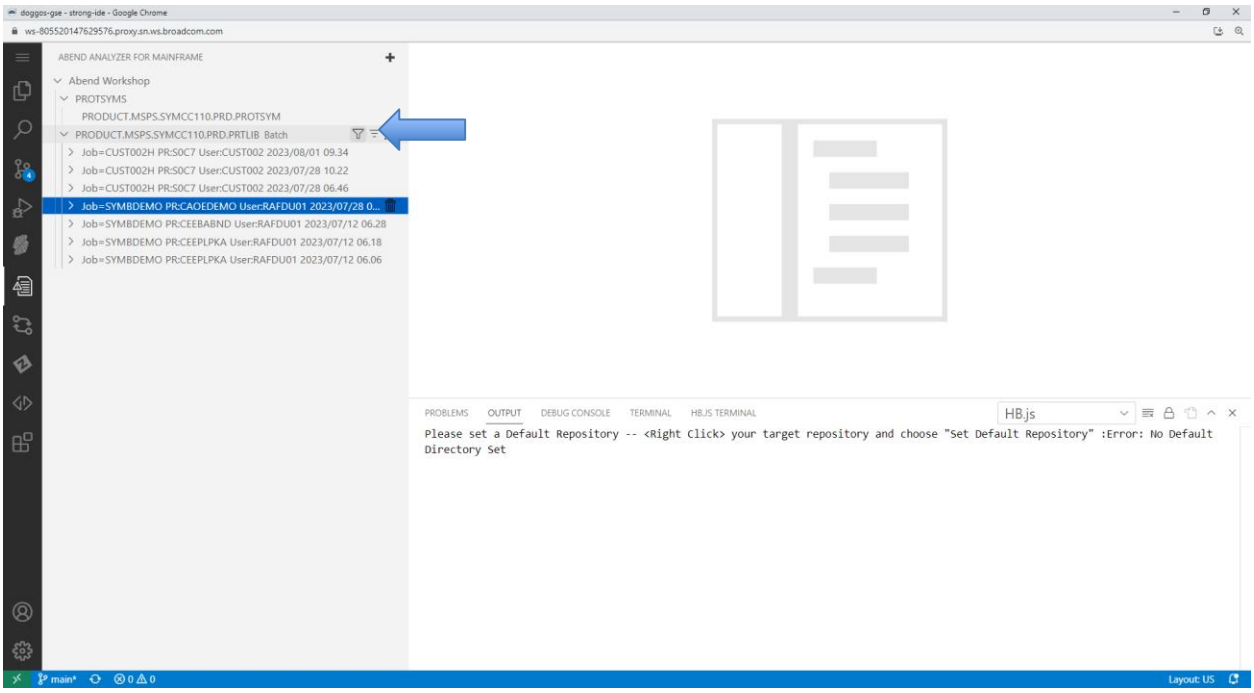
To access the dumps in the PRTLIB file expand the dataset.



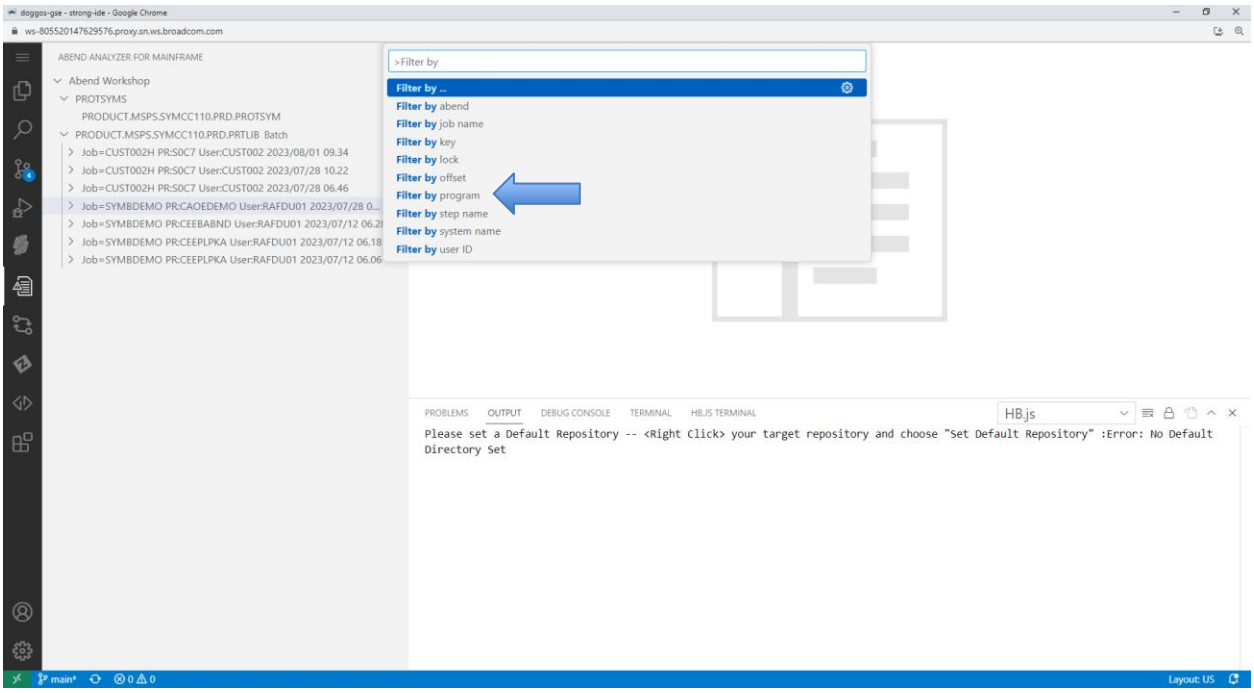
This will sign you on to the mainframe and access the dump file.



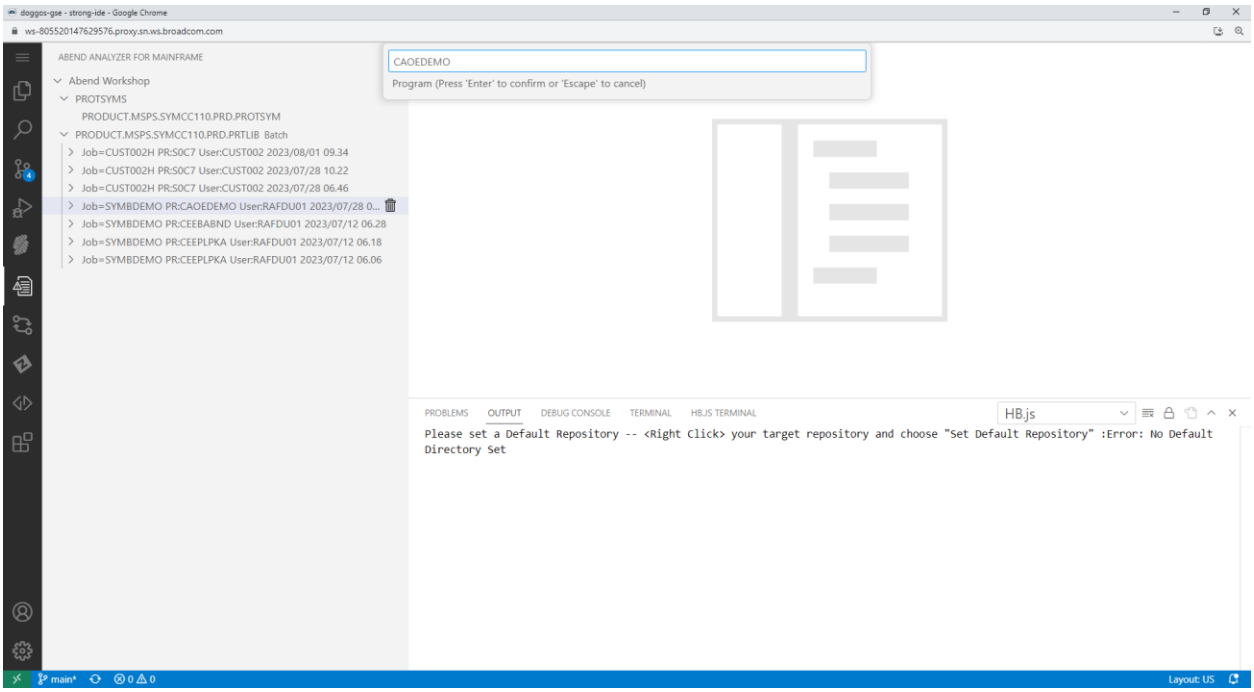
Depending on the system this file can be large. At this point you can filter the dump reports by clicking on the Filter by button.



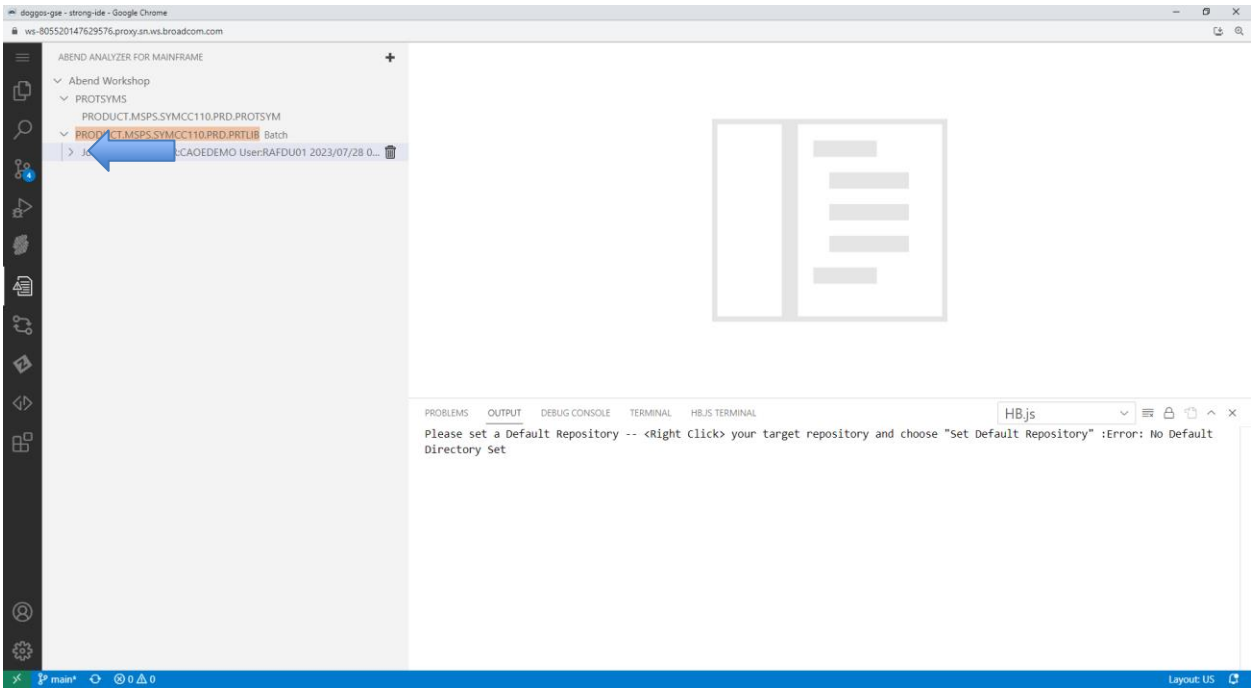
At this point you can filter by different fields. For this exercise click on Filter by program



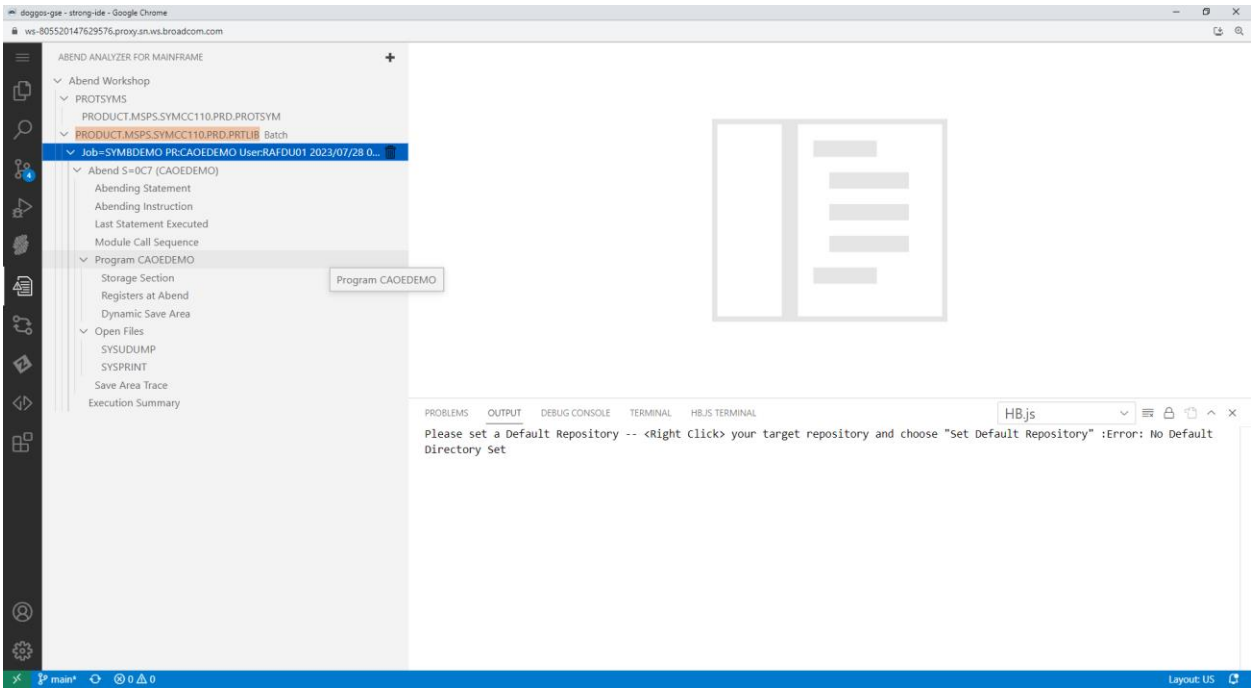
Enter CAOEDEMO in the pop up box.



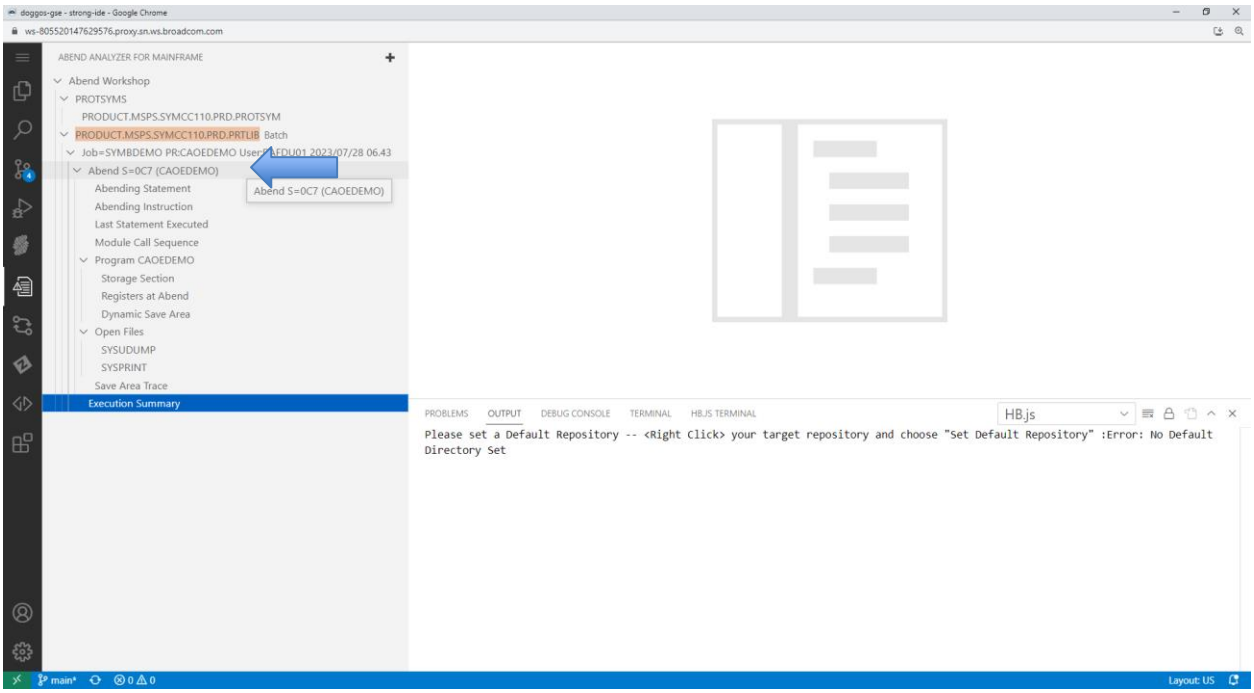
This reduced the number of dump reports and narrows the list to the dump report that you are looking for.



This will put the dump report into a tree for easier navigation.



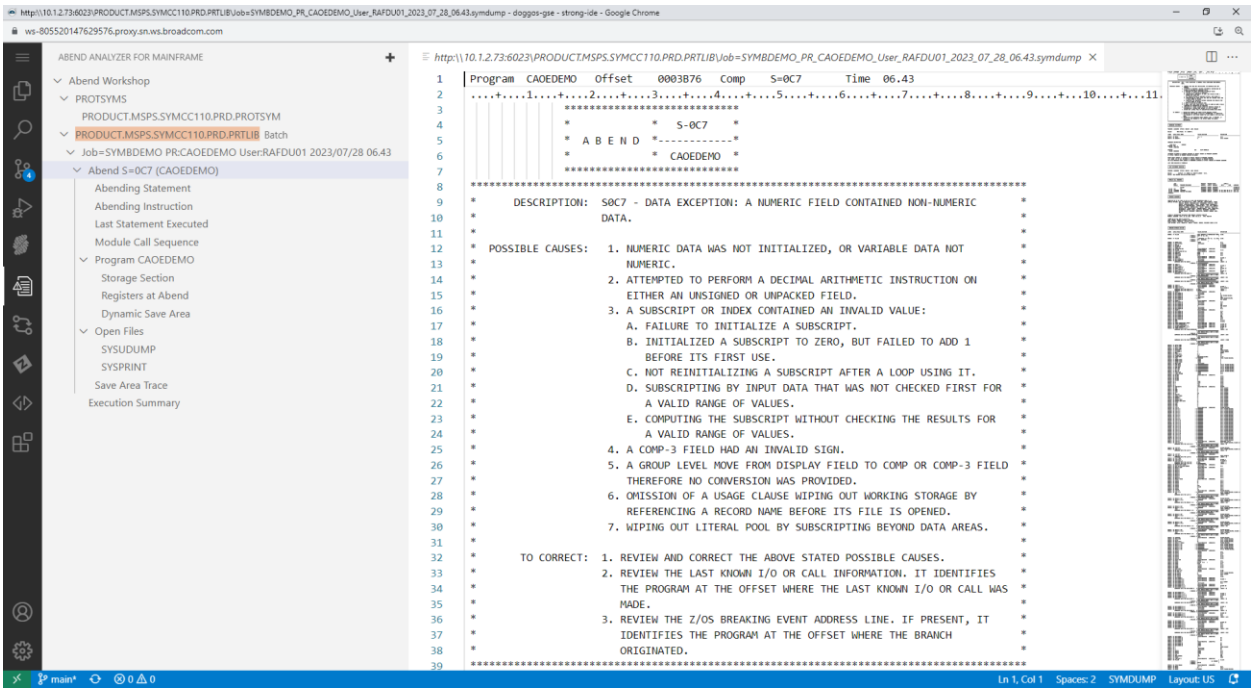
Click on the first time in the tree Abend S=0C7 (CAOEDEMO).



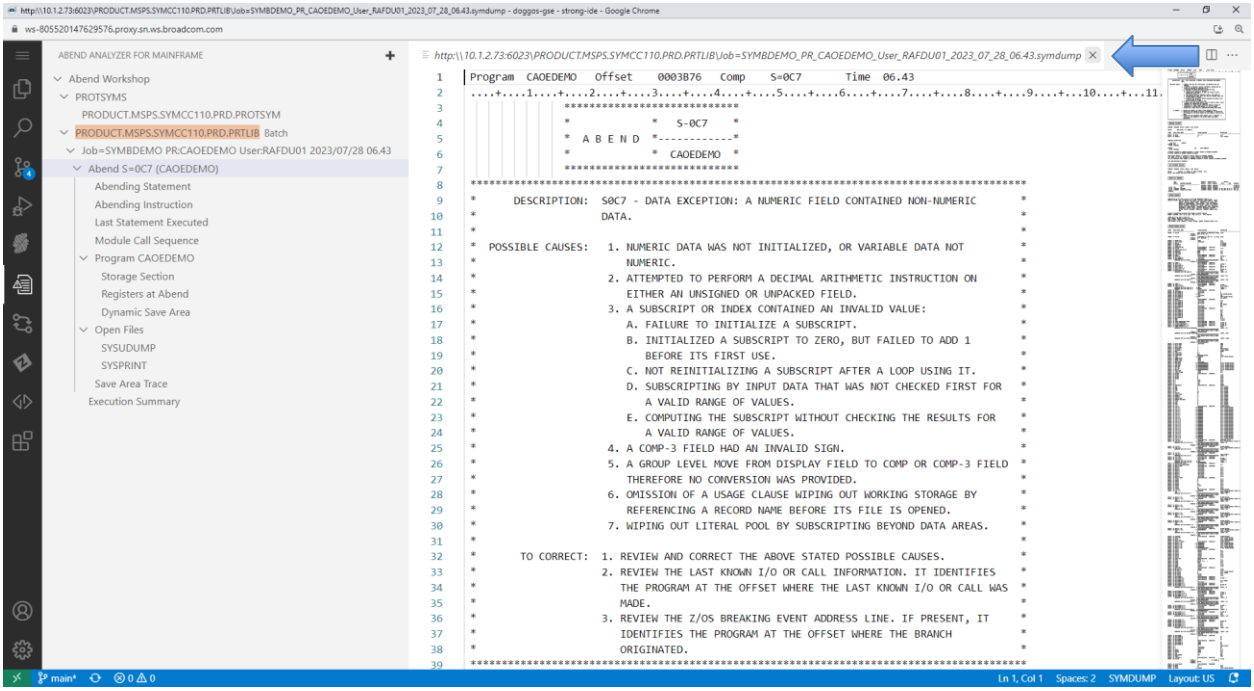
This will bring up a report showing the following information.

1. Abend code and program name.
2. Description of the abend.

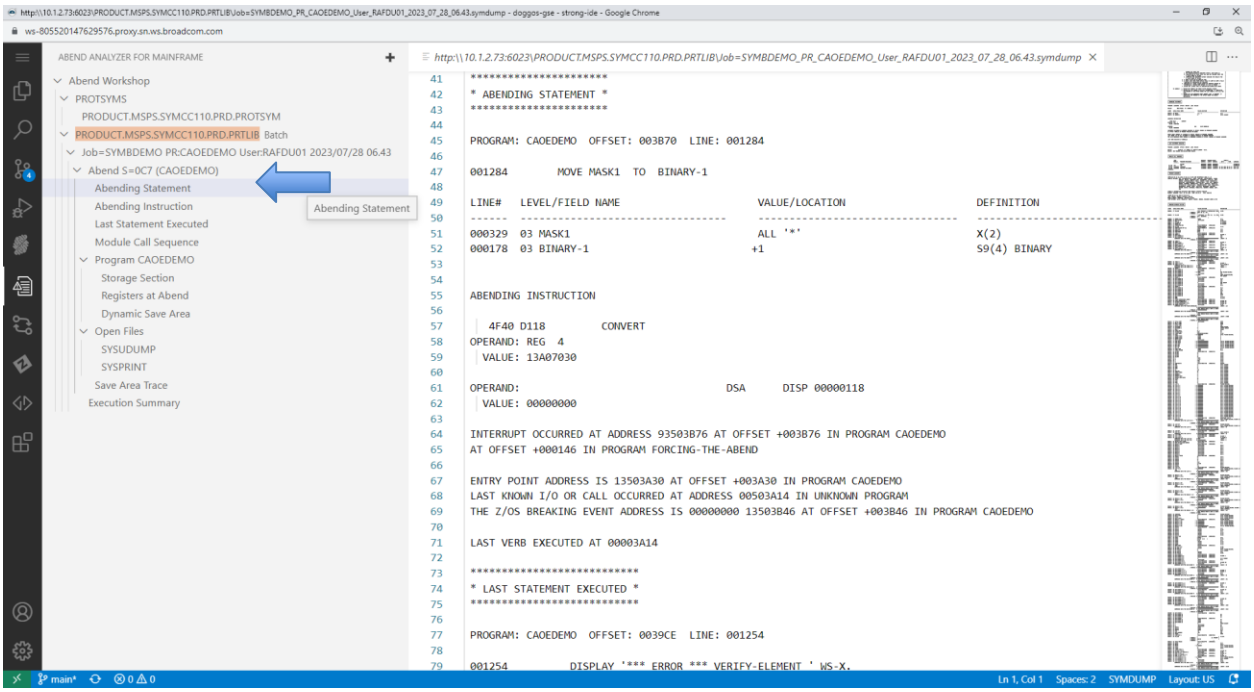
3. Possible causes for the abend.
4. What to do to correct the issue.



To close this section of the report click the x at the top of the report tab.

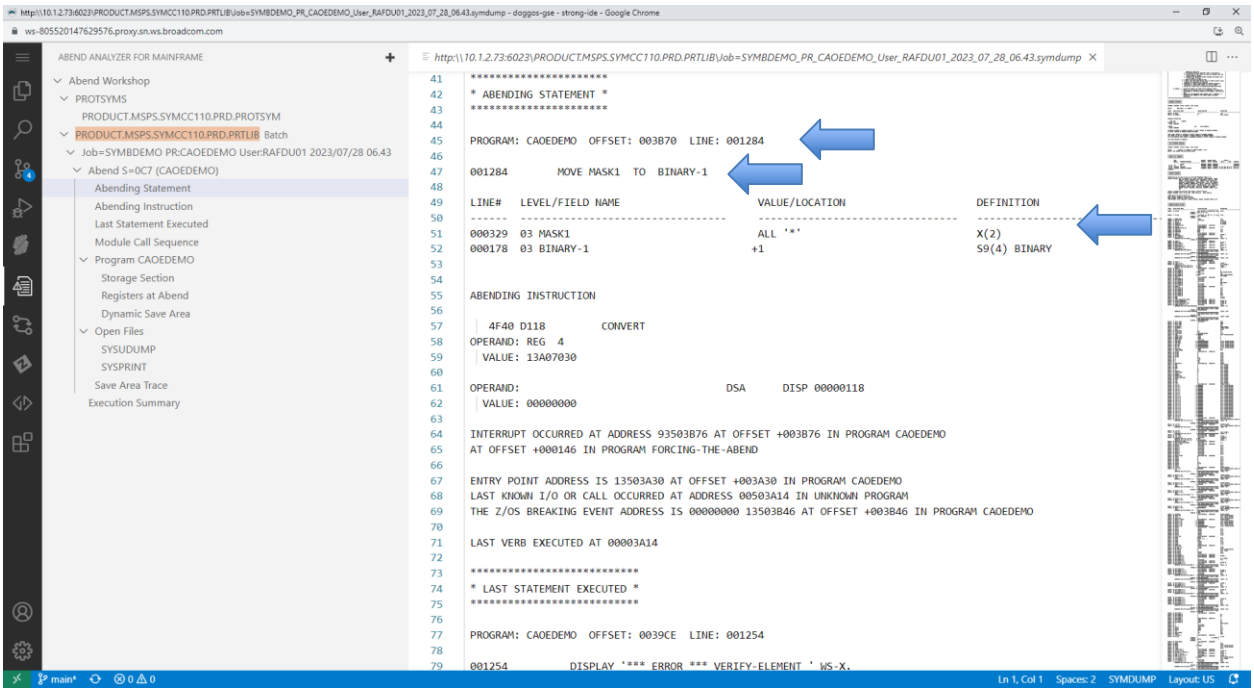


Now that you know you have 0C7 which is a data exception. Let see where in the program it is. From the dump tree click on Abending Statement.

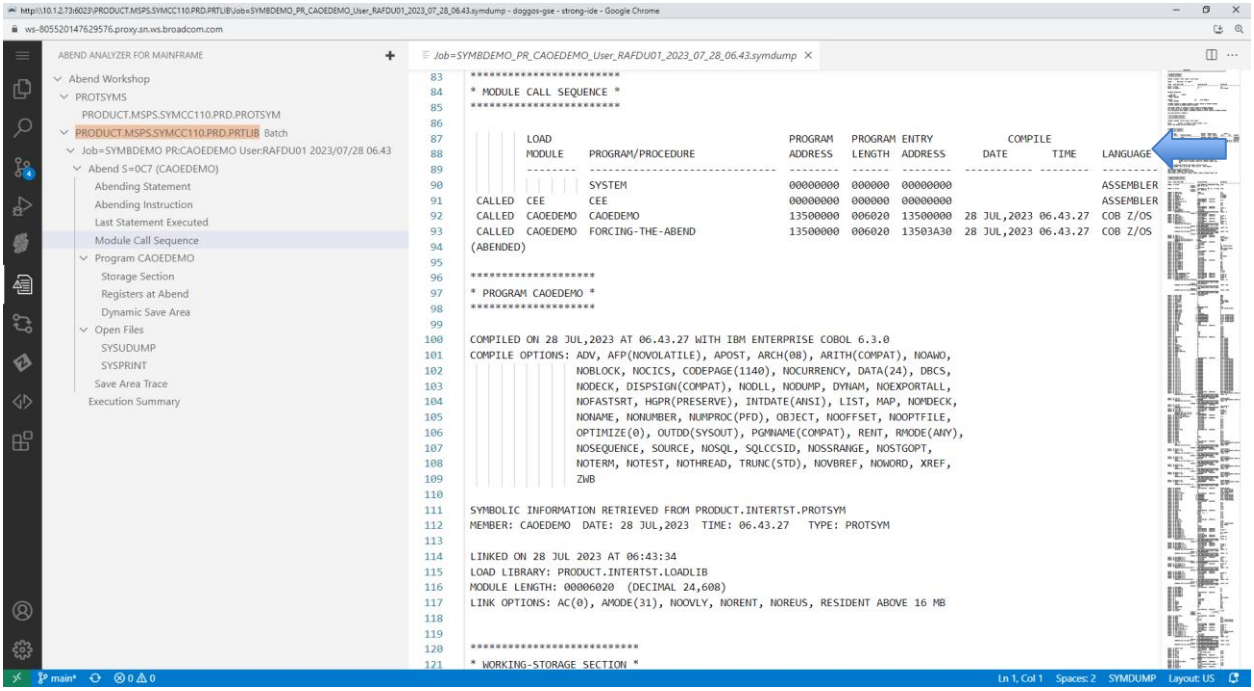


As you can see it is showing you the program CAOEDEMO the offset 003B70 and the line 001284. Plus the actual line of code.
001284 MOVE MASK1 TO BINARY-1

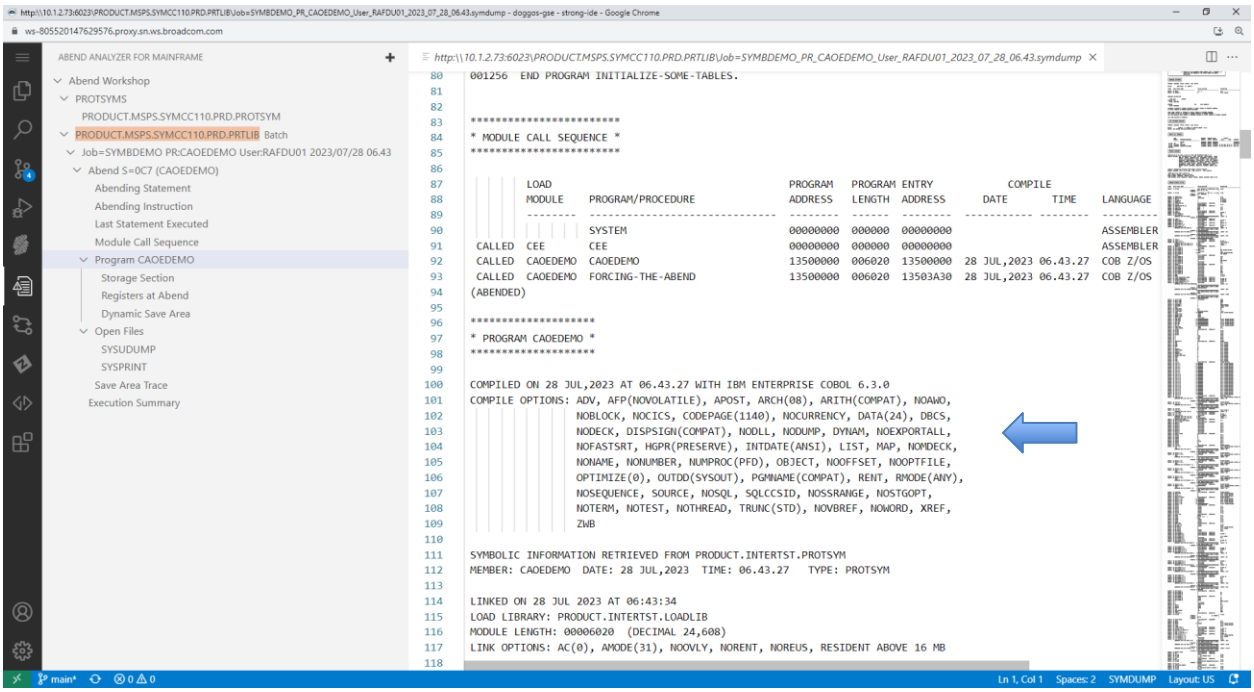
Then just below that it is show the data fields with line, level/field name, value/location and definition for this statement.



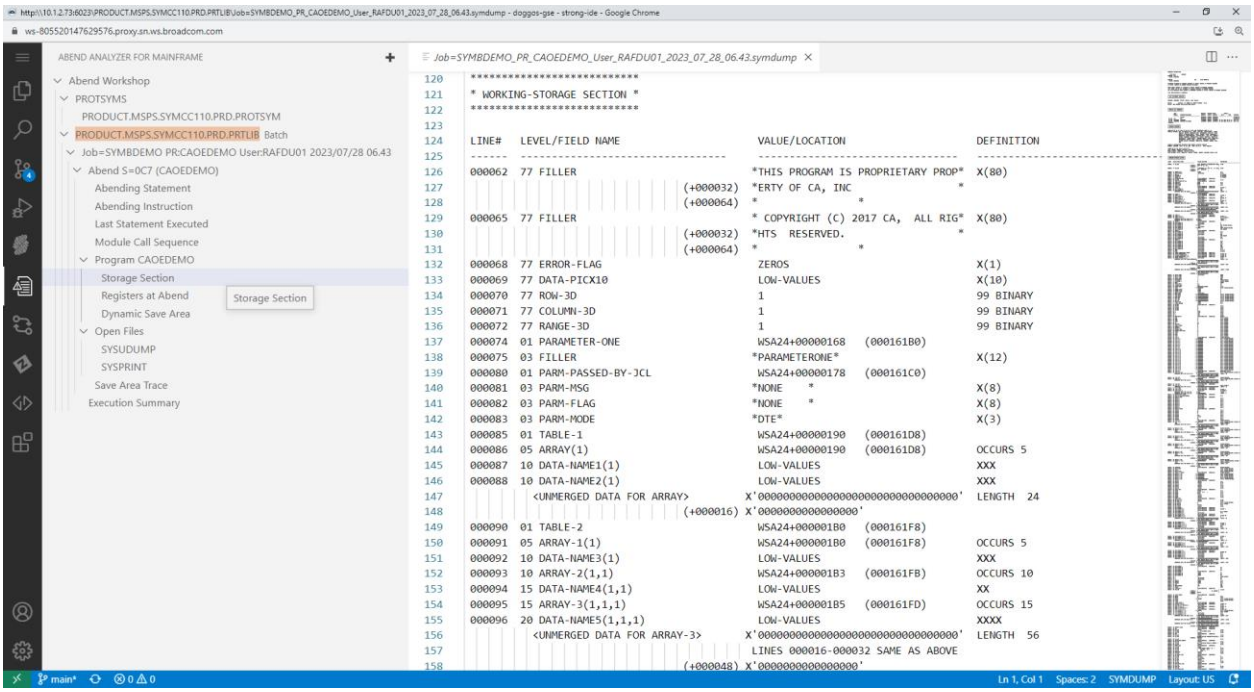
Close the report tab like before. The next item that provides very useful information is the Module Call Sequence, click on it.



In this part of the report it tells you program, compile information and language. Close the report.



Close this report tab. Sometimes it is important to see the working storage section of the abending program. To see this click on Storage Section in the dump tree.



Congratulations you have completed the basic workshop.