# **CS 405 5-3 Activity: Static Code Analysis**

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# **CS-405 Secure Coding**

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I had no issues running the QuestionableCode.cpp file in visualstudio or running the analysis in CPPCheck program. The error that was displayed when running the file in visualstudio indicates and issue with the assertion call on line 129. This issue is likely because the definition for the my\_function method states it should return a boolean but the assertion states my\_function() == 3. To fix this I would change the return value of the my\_function to int since the function is performing a calculation on an integer and should return the calculated value. Visualstudio also initially appears with the runtime error box which would indicate some sort of runtime error like an overflow or underflow. Visualstudio output doesn’t provide much else regarding the code issue.

After running the CPPCheck on the QuestionableCode.cpp file, it finds a lot more details about some potential errors. There are several information severity issues found for issues with the include library lines. This would indicate unused or incorrectly used libraries within the code to review. It then indicates a few warning level messages and error level messages. It also finds some style issues and performance issues that need to be addressed. Overall, the CPPCheck program helps find more issues which makes it easier to analyze the code and correct the errors as they are found.

Output:

A screenshot of a computer

AI-generated content may be incorrect.A screenshot of a computer

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A screenshot of a computer

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