**This is a metadata file for the output file.**

**Why I included this file:** *Grading guidelines stated “Each output file should identify exactly what the inputs were, and what program generated it. As with input there are two kinds of output we are looking for: output that shows the code worked and output of results (they could be the same). Screen shots of the running code are fine to demonstrate that the program ran. If the generation of the plots was done as part of the code (say using matplotlib), this should be noted in lieu of the name of a file.”*

However, cannot add these sorts of notes to my output file because my output file is a csv file, and the csv format does not support adding comments.

The output that shows the code works and the output of the results are actually the same. Both of these output files contain whether or not it was satisfiable, the number of literals, and the time it took to run.

[output\_test1\_chealy5.csv](https://github.com/CatherineH3/Theory_Project_1_Final/blob/main/output_test1_chealy5.csv) is the output after running the input file [check\_1\_chealy5.csv](https://github.com/CatherineH3/Theory_Project_1_Final/blob/main/check_1_chealy5.csv) and result generated by *code\_2sat\_chealy5.py*. It can be used to quickly check the code worked, but it is not very comprehensive. It doesn’t have enough data points to be useful for a timing analysis.

*output\_chealy5.csv* is the output after running the main 2Sat solver, *code\_2sat\_chealy5.py*, with data input file: data\_cnf\_chealy5.csv. It is a comprehensive way to check what worked and also can be used for time analysis in excel if desired.

Note that generation of the plots was actually done as a part of the code using matplotlib and a screenshot is included that plans that the code actually ran.