IT314: Software Engineering Group 12: Stock Analysis and Prediction TEST REPORT

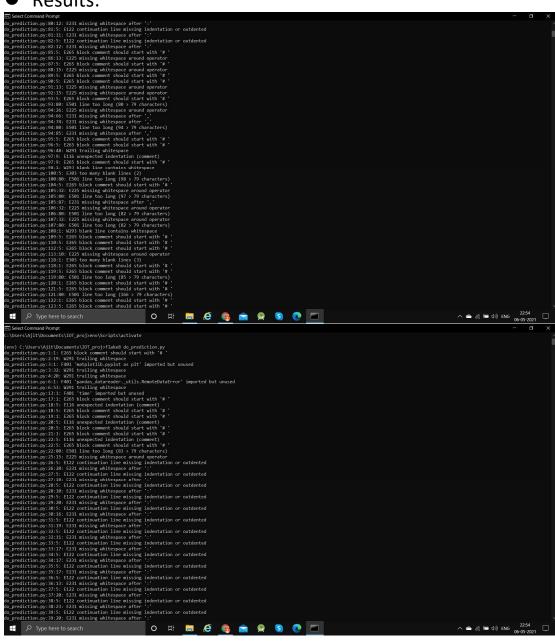
Step-1:

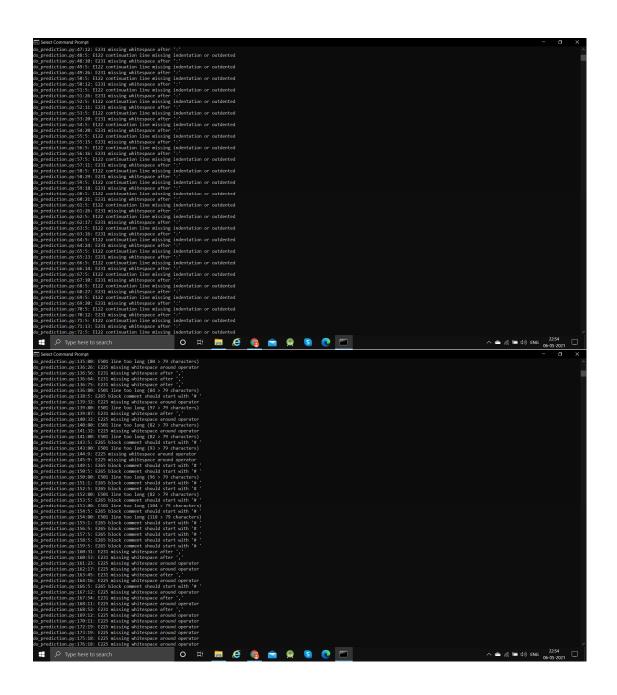
Level of testing: Unit testing

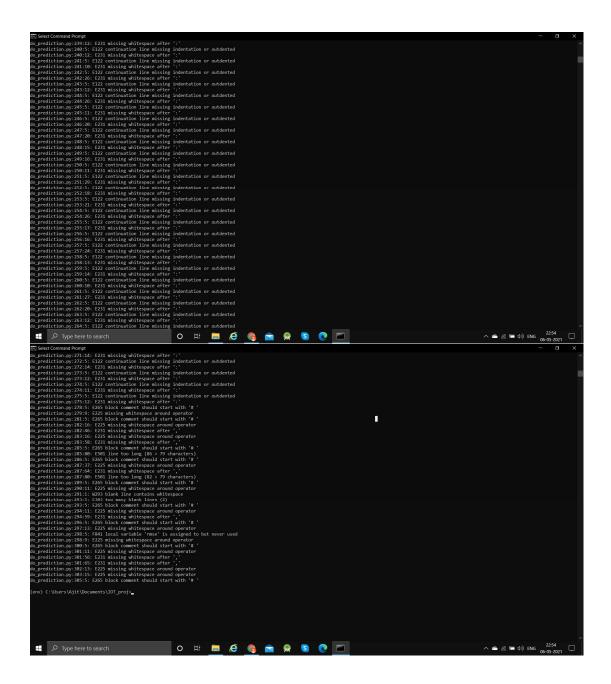
Used strategy: Static Analysis Tool

Used tool: flake8

Results:







- Justification and interpretation of result:
 - Almost all of the errors are false positive.
 - We have used ## for the comment, while the tool says use # for the comments, but it doesn't make any sense
 - All the blocks are indented well and code executed perfectly, still the tool is saying that some blocks are out dented.
 - Matplotlib is included so that we can compare our prediction with original one, but it's not needed in the

- implementation that's why tool is throwing warning that we haven't used matplotlib
- Time module is included to measure the performance of the algorithm, but it's not actually used by the website, so tool is saying that we have included time but not used it

<u>Step-2</u>:

Level of testing: Integration testing

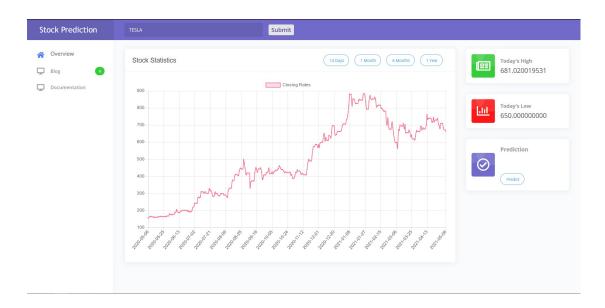
We haven't performed any formal testing for this level. Because we came to know about this topic at the end of the semester. And already, we have integrated most of the part in the code. But still we had done verification using different test cases before doing any pull requests and ensures that errors were not floating in the code.

Step-3:

- Level of testing: System Testing
- Used strategy: Black Box Testing
- Sub strategy: Equivalence Partitioning
- Our input space is divided into two equivalence classes.
- S₁: Set of valid company names and S₂: Set of invalid company cases

Index	Equivalence class	Expected Output
1.	S_1	Graph of close price, High price
		and Low Price
2.	S ₂	Error message

• Output for S_1 (Representative Input of S_1 =TESLA)



● Output for S₂ (Representative Input of S₂=TECHM)

