1. Read the Folders of the **filepath** given as input.
2. Read folders of different component types one by one.
3. Open COBOL folder first and start reading the COBOL files one by one.
4. Expand the Copy Books for the input files.

* Read the Folder of copybooks
* Read the in input file for the Keyword /COPY
* Capture the Copy name after Copy Keyword
* Copy the lines of code from the file having name as captured copy keyword
* Paste those lines in the file at the position where copy word was found
* Ignore the comment lines.

1. Save the copy expanded file as “Copy\_Expanded\_Data.txt”.
2. Open the Copy\_Expanded\_Data.txt file in read mode and read the file line by line.
3. Open the “Duplicatefile0.txt” in the write mode.
4. Each COBOL statement is ended with scope terminator ‘.’.But each statement may lies in two or three lines.
5. Using the scope terminator or keyword, we can the separate the COBOL statements. And Write each statement in a single line.
6. Close both text files.
7. Open the “Duplicatefile0.txt” in read mode and read line by line.
8. Open “Duplicatefile.txt” in write mode.
9. In cobol program, sometimes “IF” statements ends with scope terminator ’.’ not with “END-IF.
10. So when IF statement ends with ‘.’, then it is replaced with the “END-IF” statement.
11. And it is copied to the “Duplicatefile.txt”. At the end, both the files are closed.
12. Again open the file and create a dictionary with key as para name and value as the lines of code in that paragraph.
13. Again open the file in read mode and create a dictionary with key as section name and value as the lines of code in that section.
14. Open the “Duplicatefile.txt” file in read mode and read the lines one by one.
15. Open the “FinalFile0.txt” file in write mode.
16. Write the line one by one to “FinalFile0.txt”.
17. Using Regex capture the perform statements. When the regex hits perform statement then take the para name in the perform statement and search the para name in the dictionary.
18. If the para name found in the dictionary, then replace the perform statement with the value of the para name found in the dictionary.
19. Do the same for section also, when it hits the section regex. At the end, close the files.
20. Do the same thing for predefined number of times.
21. Open the last file generated with read mode and read the file line by line.
22. Now each line starts with keyword, and the keywords in mainframe is divided manually into six categories.
23. Split the first word from the line and check the first word belongs to which category.
24. Each category has different rule\_category and statement\_grouping.
25. The code block is divided into six categories.
26. If the keyword belongs to first category , then the entire line enters in to the first block of the code.
27. A new column parent\_rule\_id is introduced to track the scope of the condition statements by adding the rule\_id of that conditional statement until the end of that condition statement.
28. Then form a JSON from each file and add it to a global list.
29. At the end of the file, insert the list in the DB and clear the list.
30. Delete all the temporary files created.
31. Do the same process for all files .