Tutorial
Name

Based on the initial code of Assignment 3, modify StaicCheck.py to implement the following questions:

Question 1.
Create global referencing environment of an MP program? Modify TestUtils.py and CheckerSuite.py to test your code. The instruction to test your code is "python run.py test CheckerSuite"

Question 2.
Modify your code to check if a duplicate declaration in global environment happens, the corresponding exception is thrown. Make sure that your code is tested properly.

Question 3.
Modify your code to add parameter declaration in the referencing environment of a function/procedure such that it follows the rule of MP scope. Make sure that your code is tested properly.

Question 4.
Modify your code to check if a variable is used in a function/procedure, the variable must be declared before and it appeared in the referencing environment of the function/procedure. The correspoding exception will be thrown otherwise. Make sure that your code is tested properly.