In this assignment, there are three python files that implement the MINIMAX algorithm:

* as3\_tree.py: this class transforms a list of data into a tree. Do not change this file.
* **as3\_mnx.py:** you will ***work*** on this file and ***submit*** this file only.
* as3\_test.py:you can use this file to test your implementation. In this file, we included a list of data that provides the terminal value for the tree.

**Tasks:**two tasks need to be fulfilled:

1. There are four (4) logical errors, which are intentionally put inside the file: **as3\_mnx.py**. You have to find **ALL** the errors and fix them. Otherwise, your code will not work correctly. For example, the result of the*best terminal value* in the root should be '3' instead of '6'. (2 points)
2. Implement the additional code (also in the file: **as3\_mnx.py**) to return the *traversed\_solution* in the form of an array. For example: ['*A*', '*X*', '*Y*'], with *A* is the root node, *X* is the child of *A*, *Y* is the leaf node containing the best terminal value (which is 3). Apparently, *Y* the child of *X*. (3 points)

Remember to put the*best terminal value* and the *traversed\_solution* into the object *res*, which is an instance of the class *Result.*We have already included an example of how to use this object in the file: as3\_mnx.py (from line 33 to line 39).

**Policy:**

* Program crash: 0 points. We also made an auto-grader. If our grader cannot run your implementation, you will get 0 points. Therefore, please keep the **name of functions**, the **input parameters**, and the**output**.
* There is a runnable example of the output inas3\_test.py. You might test the case by yourself.
* Plagiarism:0 points. Before we do the grading, we will check the code similarity to make sure that no one copies and pastes the code from others.
* Grading environment: Python 3.7.4 on Windows 10. You can use Anaconda with Jupyter to debug. However, if your code cannot run on the terminal in the grading environment, you will get 0 points**.**
* Deadline: **23:59, 16th Sep. 2020.**