**Parsing and Manipulating XML Data Assignment Grading Rubric**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Criteria** | **Levels of Achievement** | | | |
|  | **Advanced** | **Proficient** | **Developing** | **Not present** |
| Reading in XML file | **9 to 10 points**  Handles scenarios such as file not found, incorrect parameter count, etc., | **7 to 8 points**  File is read in correctly without error using the correct parameters. | **1 to 6 points**  File read with errors or filename hard coded in Python source | **0 points**  File not read |
| Finding XML node identified by name specified on the command line using ElementTree | **14 to 15 points**  Handles the plant not found scenario and accommodates for upper case / lower case scenarios | **11 to 13 points**  Does not handle error scenarios but correctly finds the XML node identified by the name on the command line | **1 to 10 points**  Does not find the plant node by name or uses a name hard coded in the Python source. | **0 points**  Node not found |
| Modify the current price by the percent amount specified on the command line | **14 to 15 points**  Correctly modifies price and does range checking on the value passed on the command line. | **11 to 13 points**  Current value found and modified correctly. | **1 to 10 points**  Current value found but not modified correctly | **0 points**  Current price not found |
| Write the new XML content out to an XML file | **5 points**  New XML content correctly written out to the file system using proper error/exception handling | **4 points**  New XML content correctly written out to the file system | **1 to 3 points**  New XML content not written out correctly (i.e. file not closed, wrong name, added/removed nodes, etc.,) | **0 points**  File not written |
| Documentation – source code is well documented | **5 points**  Functions, variables, code blocks, etc., are well documented. Variable names follow industry convention. Improper call syntax results in a usage message back to the user. | **4 points**  Modest but correct comments, generally consistent and correct in variable/function naming | **1 to 3 points**  Inaccurate and sparse comments. Naming conventions generally inconsistent. | **0 points**  No comments |