

Functional Test Table

| Test Case # | Test Purpose | Test Procedure | Required Inputs | Expected Results | Results | Pass/Fail |
|-------------|--|--|-----------------|---|---|-----------|
| 1 | To test an identifier token "epsilon". Expect to SHOW up in Cross Reference Information section | Assert that the require input is present in input file NEWTON.PAS | epsilon. | 1: epsilon. >> <IDENTIFIER> epsilon >> . . Cross Reference Information Identifier Line Numbers ----- --- epsilon 1 | 1: epsilon. >> <IDENTIFIER> epsilon >> . . Cross Reference Information Identifier Line Numbers ----- --- epsilon 1 | passed |
| 2 | To test a none-identifier token "Program". Expect to NOT show up in Cross Reference Information section. | Assert that the require input is present in input file NEWTON.PAS | Program. | 1: Program. >> PROGRAM program >> . . Cross Reference Information Identifier Line Numbers ----- --- | 1: Program. >> PROGRAM program >> . . Cross Reference Information Identifier Line Numbers ----- --- | passed |
| 3 | To test an Identifier token - writeln | Assert that the require input is present in input file NEWTON.PAS at line 11 | writeln; | 11: writeln; >> <IDENTIFIER> writeln >> ; ; | 11: writeln; >> <IDENTIFIER> writeln >> ; ; | passed |

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| 4 | To test a Number token - 1 | Assert that the require input is present in input file NEWTON.PAS at line 26 | root := 1; | 26: root := 1; >> <IDENTIFIER> root >> := := >> <NUMBER> 1 >> ; ; | 26: root := 1; >> <IDENTIFIER> root >> := := >> <NUMBER> 1 >> ; ; | passed |
| 5 | To test a Reserve word (Key word) token - CONST | Assert that the require input is present in input file NEWTON.PAS at line 3 | CONST | 3: CONST >> CONST const | 3: CONST >> CONST const | passed |
| 6 | To test a special character token - parentensis | Assert that the require input is present in input file NEWTON.PAS at line 13 | read(number); | 13: read(number); >> <IDENTIFIER> read >> ((>> <IDENTIFIER> number >>)) >> ; ; | 13: read(number); >> <IDENTIFIER> read >> ((>> <IDENTIFIER> number >>)) >> ; ; | Pass |
| 7 | To test a special character token - the period (.) | Assert that the require input is present in input file NEWTON.PAS at line 13 | END. | 35: END. >> END end >> . . | 35: END. >> END end >> . . | Pass |