# 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 |
| 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 |