Nicholas Mills

CMSC 330

10/14/18

Project #2: Expression Evaluator

**Test Cases:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Purpose | Input | Expected Output | Actual Output | P/F |
| Example Case, tests addition and multiplication. | (x + (y \* 3)), x = 2, y = 6; | Value = 20 | Value = 20 | P |
| Test subtraction, division and negative results. | (x - (y / 2)), x = 6, y = 20; | Value = -4 | Value = -4 | P |
| Test logical operators true | (((x !) & y) | x), x = 0, y = 1; | Value = 1 | Value = 1 | P |
| Test logical operators false | (((x !) & y) | x), x = 0, y = 0; | Value = 0 | Value = 0 | P |
| Test conditional true | (10 : 5 ? z), z = 1; | Value = 10 | Value = 10 | P |
| Test conditional false | (10 : 5 ? z), z = 0; | Value = 5 | Value = 5 | P |
| Test relational operators true | (((x = y) | (y > z)) | (x < z)), x = 1, y = 1, z = 0; | Value = 1 | Value = 1 | P |
| Test relational operators false | (((x = y) | (y > z)) | (x < z)), x = 5, y = 1, z = 2; | Value = 0 | Value = 0 | P |
| Prove int not double | (x / 3), x = 10; | Value = 3 | Value = 3 | P |