**Project 3**

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Test Cases:

|  |  |  |  |
| --- | --- | --- | --- |
| Input | Expected Output | Actual Output | Pass/Fail |
| ((3+x)-(3\*y)), x=3,y=4;  ((x/4)=2),x=8; | -6  1 | -6  1 | Pass |
| (x>4),x=5;  (x>4),x=4;  (x>4),x=3; | 1  0  0 | 1  0  0 | Pass |
| (x<4),x=5;  (x<4),x=4;  (x<4),x=3; | 0  0  1 | 0  0  1 | Pass |
| ((x=3)!)x=3;  ((x=3)!)x=4; | 0  1 | 0  1 | Pass |
| ((x=3) & (y=4)),x=3,y=4;  ((x=3) & (2=3)),x=3; | 1  0 | 1  0 | Pass |
| ((x=3) | (y=4)),x=3,y=4;  ((x=3) | (2=3)),x=3;  ((x=4) | (2=3)),x=3; | 1  1  0 | 1  1  0 | Pass |
| (7:4?x=3),x=3;  (7:4?x=3),x=4; | 7  4 | 7  4 | Pass |

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User Guide:

* Put all files in same folder except for the word doc.
* Put the expression(s) you want evaluated in the text file: “expressionText.txt”
  + Only one expression per line
* Run module3.cpp
* The output will be evaluated expression.
  + For Boolean questions. 0 is false, and 1 is true.

Lessons Learned:

Going into this, I had never programmed in C++. When I first got everything set up, this assignment looked overwhelming and undoable. However, this final was actually really easy. As someone who was not familiar with C++ I think the final that you gave us was well thought out. By relying on this course’s readings and my prior coding knowledge, I was able to understand the program at hand and implement the necessary changes. This made me feel much more comfortable in C++ and I also learned how to use pass by reference(which I found to be incredibly useful).