

CS330 - Computer Organization & Assembly Language Assignment # 7

Individual Work Only

Problem:

Write an assembly language program which takes two integers, A and B, and computes the following expressions. You must use the same variables for A and B throughout all three expressions.

- 1) $A * 5$
- 2) $(A + B) - (A / B)$
- 3) $(A - B) + (A * B)$

TURN IN: Please the following three items inside a .zip file and submit the .zip file

- asgn7.s
- Makefile
- Independent completion form

RUBRIC:

- 45%: 15% per working problem. (Each missing problem is minus 33%)
- 15%: 5% per result of problem printed.
- 10%: Use the same A and B variables for all expressions.
- 30%: Document all code.
 - Comments must be thorough and correct but not redundant.
 - Explain both what you're doing and why you're doing it.
- 10% bonus: Take user input for A and B.
- Code that does not compile will result in an automatic zero.
- NOTE: Writing C code and converting it into Assembly and submitting the compiler generated Assembly is **STRICTLY PROHIBITED**.