**Computer Organization and Assembly Language**

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| **Lab 02** | |
| **Topic** | Usage of add, sub instructions |

**PART 2**

**Problem 1:**

Let there are 4 variables of type byte, add the values of first three variables and store the sum in fourth variable. Assume values by yourself.

**Problem 2:**

Write a code to implement the following equation:

**Let**

**A=12**

**B=13**

**C=14**

**D=25**

**E=16**

**E=((A+B)-(D-E)-C)+E**

**Note: E=0x12 is the solution.**

**BONUS**

**Optimize your code within 18 lines of code including**

**[org 0x100]**

**…**

**mov ax,0x4c00**

**int 21h**

**…**