

**Department of Computer Science and Engineering**

**21st Batch**

**Lab Report 3**

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| Course title | : Microprocessor and Assembly Language |
| Course Code | : CSE-334 |

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**Problem Statement:** Implement this calculation of (A+B-C) using assembly language.

**Theory:** To Print the coder’s name by Assembly code using emu8086 character by character, we will use the default assembly format to print a single character. To do so, we will use two different registers. “**AH**” register as the mode of the code and “**VAR3(C), VAR1(A), VAR2(B)**” to store the input values, which will be calculated and stored at “**REST**” then printed using “**DL**” register and the “**INTERRUPT ROUTINE 21H**”.

**CODE:**

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| .MODEL SMALL  .STACK 100H  .DATA  VAR1 DB ?  VAR2 DB ?  VAR3 DB ?  REST DB ?  .CODE  MAIN PROC  MOV AX,@DATA  MOV DS,AX    MOV AH,1  INT 21H  MOV VAR1,AL    INT 21H  MOV VAR2,AL    INT 21H  MOV VAR3,AL    ;NOW WE CALCULATE  MOV BL,VAR1  ADD BL,VAR2  SUB BL,VAR3    ;WE PRINT HERE  MOV AH,2  MOV DL,BL  INT 21H    MOV AH,4CH  INT 21H  MAIN ENDP  END MAIN |

**Result:**

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