



**Department of Computer Science and Engineering**

**21st Batch**

**Lab Report 3**

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

| Submitted By | Submitted To |
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Submission date: 15-02-2022

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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:

```
.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: