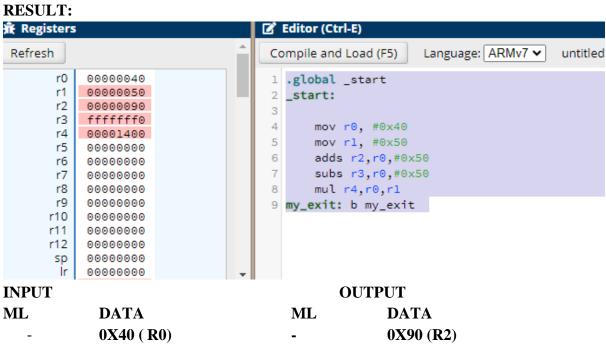
Lab-4

Obj-1: Perform Addition and Subtraction of two 32-bit numbers using data processing addressing mode (with 8-bit immediate data).

```
Program:
.global _start
_start:
       mov r0, #0x40
      mov r1, #0x50
       adds r2,r0,#0x50
      subs r3,r0,#0x50
      mul r4,r0,r1
my_exit: b my_exit
```



0Xfffffff0 (R3) 0X50 (R1) 0X1400 (R4)

Objective-1: (with 32-bit immediate data).

RESULT:

```
r0
     ab000002
                                    1 .global _start
 r1
     1200000c
                                      _start:
 r2
     bd00000e
                                    3 LDR R0,=0xAB000002
 r3
     98fffff6
                                          LDR R1,=0x1200000c
 r4
     28000018
                                          adds R2, R0, R1
                                    5
 r5
      00000000
                                          subs R3, R0, R1
                                    6
 r6
      00000000
                                    7
                                           mul R4, R0, R1
 r7
      00000000
 r8
      00000000
                                    8 my_exit: b my_exit
 r9
      00000000
r10
      00000000
                                   10
r11
      00000000
r12
      00000000
      00000000
 sp
  lr
      00000000
     00000014
 pc
cpsr
      a00001d3 NZCVI SVC
spsr
      00000000
                NZCVI ?
s0
     00000000
```

INPUT		OUTPUT	
ML	DATA	\mathbf{ML}	DATA
-	0XAB000002	-	0Xbd00000e
-	0X1200000C	-	0X98fffff6
		-	0X28000018

Objective 2: Perform Addition, Subtraction, and Multiplication of two 32-bit numbers using load/store addressing mode.

RESULT



Objective-3: Perform the logical operations (AND, OR, XOR, and NOT) on two 32-bit numbers using load/store addressing mode

Program

 $. global _start$

_start:

LDR R0,=0X10100000

LDR R1,[R0],#4

LDR R2,[R0],#4

ANDS R3,R2,R1

STR R3,[R0],#4

ORR R4,R2,R1

STR R4,[R0],#4

EOR R5,R2,R1

STR R5,[R0],#4

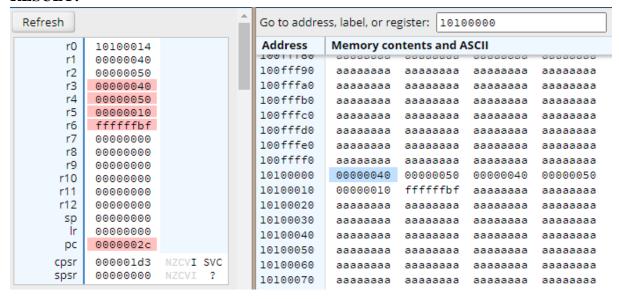
MVN R6, R1

STR R6,[R0]

my_exit: b my_exit

RESULT:

INDITE



AUTDUT

INPUI		OUTPUT	
ML	DATA	\mathbf{ML}	DATA
0X10100000	0X40	0X10100008	0X40
0X10100004	0X50	0X1010000C	0X50
		0X10100010	0X10
		0X10100014	0Xffffffbf