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Cs501 Assignment 1 Solution

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Write the instructions for 2-address machine and 3-address machine to evaluate the following expression.

$$Z = 2(X + Y) - 4XY$$

Note: x, y and z represent memory locations.

2 Address Machine.	3 Address Machine.
load m,X	add m,x,y
add m,Y	mul t,m,2
mul m,2	mul p,4,x
load n,x	mul q,p,y
mul n,y	sub z,t,q
mul n,4	
sub m,n	
load z, m	

Question No 2 Solution:

Consider the following Assembly code written for SRC machine where t, a and b are memory locations and their value are $t = 5$, $a = 4$ and $b = 38$.

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ld R1, t :load t value = 5 into R1

addi R3, R1, 40 now R3 contain 45: R1 value + 40 and store in R3

addi R3, R3, 2 now r3 contains 47 : R3 value + 2 and store in R3

shl R1, R3, 2 now multiply R3 value 47 with 4 :4 (47) and store in R1 : 188

sub R2, R1, R3 188 - 47 = R2 value : 141

ld R4, a now load a value 4 into R4

shl R5, R4, 4 now multiply R4 value with 16 : $16(4)$ now R5 value is 64

sub R5, R4, R3 now subtract R3 value form r4 : $4 - 47 = -43$

Note: Fill up the given table with the values computed at the end of the code.

Registers	Contents
R1	188
R2	141
R3	47

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R4	4
R5	-43