**Homework**

1 - addi $t0, $t0, 10 # adding 10 to $t0

sub $t0, $s3, $t0 # putting Z – 10 in $t0

add $t1, $s1, $s2 # adding X + Y and putting it in $t1

sub $s4, $t1, $t0 # subtracting X+Y – Z – 10 and putting it in W

2 - lw $t0, 40($s3) # load A[10] in $t0

 add $s1, $s2, $t0 # C = B + A[10]

 addi $t1, $s2, 2 # put B + 2 in $t1

 sw $t1, 44($s3) # store what is in $t1 in A[11]

3 -

1. add $s2, $t4, $s0

In binary:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 000000 | 01100 | 10000 | 10010 | - | 100000 |

In hexadecimal:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 0x0 | 0xC | 0x10 | 0x12 | - | 0x20 |

1. lw $s7, 64($s3)

In binary:

|  |  |  |  |
| --- | --- | --- | --- |
| 100011 | 10011 | 10111 | 0000000001000000 |

In hexadecimal:

|  |  |  |  |
| --- | --- | --- | --- |
| 0x23 | 0x13 | 0x17 | 0x40 |

4 - beq $s3, $s4, True

 addi $s0, $s1, -10

 j Exit

 True: add $s0, $s1, $s2

 Exit: …