#====================================================================

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# Creation Date: 3/1/19  
# Description: This is problem #1 of assignment 1 where we must convert the give assembly

# code to binary representation.  
#====================================================================

Assembly:

loop:

beq $t1, $t2, done

lw $s1, 0(($t0)

add $s0, $s1, $s0

addi $t1, $t1, 1

J loop

done:

Format:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| op | rs | rt | rd | shmat | func |

beq $t1, $t2, done :

|  |  |  |  |
| --- | --- | --- | --- |
| 4 | 9 | 10 | 5 |

lw $s1, 0($t0) :

|  |  |  |  |
| --- | --- | --- | --- |
| 35 | 8 | 17 | 0 |

add $s0, $s1, $s0 :

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 0 | 17 | 16 | 16 | 0 | 32 |

addi $t1, $t1, 1 :

|  |  |  |  |
| --- | --- | --- | --- |
| 8 | 9 | 9 | 1 |

J loop :

|  |  |
| --- | --- |
| 2 | 0x4CB23 |

Binary Representation:

00010001001010100000000000000101

10001101000100010000000000000000

00000010001100001000000000100000

00100001001010010000000000000001

00001000000001001100101100100011