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CPSC 300

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Homework 7

1. Write MIPS code for the below Python code. [40]

HW7	ion code. [10]
GALOSCOS	
1 @ «×C004F004	
A @ 0x F0000004	
	*** * SE
= 0	
J=1	Te.
A=[0x23,0x15]	•
CiJA+ [iJA = [iJA	
In MIPS code: (Assume	all registers are empty)
lui Sto ex FOCO) Had	ear of i in \$to
ori \$40 .x0000 3	, , , , , , , , , , , , , , , , , , , ,
	:=0
JW A THE OCHIO)	addr of jin \$+1
evi sti exfcoy	0 10
	HŠ50 = 1
lui \$11 0xf000	H base addr of A in \$+2
er! \$12 0x 0004	- vase add or A in 4+2
add: \$ 5 \$51 # 0.73	H 51 = 0x23
	4 A[0] - 0.23 A= [0x23, 0x15]
sw \$51 0 (18+2) { addi \$52 \$52 ox15	# 52 = 0x15
A	4 A[1] = 0x15
	#; → \$53 #5→ \$54
sil \$54 0 (\$41)	# i x Y = 0 x 4 > 0
add \$53 \$53 \$12 5	# alsolute addr of A [:] -> \$53
lus 155 0(\$53)	# 200 = 07 A L:] - 355
sll \$54 \$54 2)	# ALIJ - ALOJ = 842 7 355
add \$54 \$54 \$+2 \$	# a boolute addr of ACID -> \$54
lu \$56 0 (\$54)	# A
	4 A(1] + A(1) - 0,13 + 0,15 -> \$55
SM \$55 0 (\$53)	[;]A←[j]A H