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Q1) a. k=2

add: \$t0, \$0, 2

sll \$t1, \$t0, 2

old: \$t2, \$0, 9

old: \$t3, \$0, 2

mult ftz, ft3

n flo tes

slt \$ts, \$t1, 1+4

bre fts, to, slip

add: 1t6, \$0,1881 add ter, Ao, \$60

₹0 = Z

+1=2

t2=9 = 1001

t3=2 = 0010

18= 10010

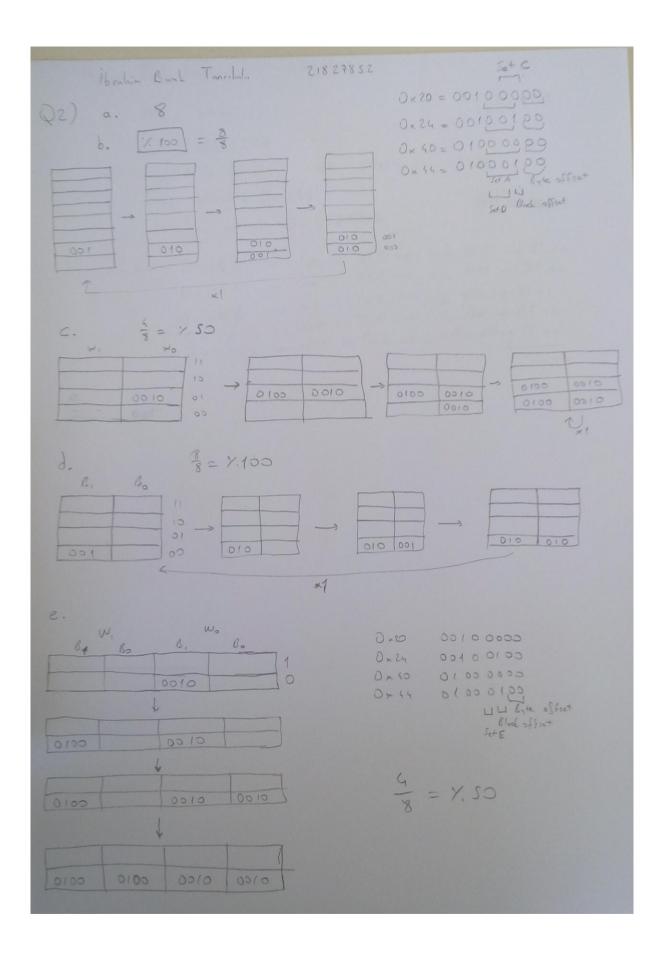
t4=2 =0010

ts=0

+6= 1881 +7= 4

Legister	(+0)	tı	+2	+3	+4	ts	t6	+7
Value	2	2	9	2	2	0	1881	4
Points	(	3	1	1	3	3	5	3

imm = 12 = 0 x 000C



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Q3)

a. k=2  $VPN = 0 \times 2$   $VPN = 0 \times 2$   $VPN = 0 \times 200$   $VPN = 0 \times 400$   $VPN = 0 \times 400$ 

21827852 Q9) k=2 124 IF 10 EX M WB add: \$ E1, \$0,2 11-2 add \$\$2, \$41, \$41 54=4 IF 10 Ex M WB and \$54, \$42, \$42 IF ID EX M WB sS= 4 sub \$55, \$t2,\$t3 IF ID EX M WB Sw \$51, 20 (\$42) IE 10 EX M WB or \$57, \$43, \$44 57=0

Sw -> [ op ] rs | rt ] imm ] -> Instr D[20:16] = rt = \$56 = 22 = 10110

and is in Money stage, so Man Write M = 0

AW DutM = \$t2 and \$t2 = 0010 & 0010 = 0010 Result W = \$t1 + \$t1 = 2 + 2 = 4 = 0100Write Rey W = \$t2 = 10 = 1010

Signal	Value
Instr 0[20:16]	10110
Men Witte M	0
ACU Dut M	0010
Result W	0100
Writelegw	1010
	Binary