Assignment - 1

Name: Wasimul Karcim

ID :011 211 105

Course: 3CSE-3313

Section: A

Am to the a. No-1

(a) NOT doesn't exist because, A=~B can be done using

A = BNOR O

We can just use zero register instead of O,

- : \$ nor \$50, \$51, \$zero (Herre A = \$50, B = \$51)
- . We can perform "NOT" operation using HOR. That's why "not" doesn't exist in MIPS.
- (b) Suppose on equation,

$$a = \overline{b+1}$$

we can write,

$$f = 1$$

$$\Rightarrow f = 0 + 1$$

: Ora \$ to, \$zero, 1

after that,

nor \$50, \$51, \$\$0 (where a=\$50, b=\$51)

So, we can say, we don't need "norri" because we have alternative way by using "Orri" and "norr" in MIPS.

Am to the a. No-2

- 1 1 0 i

addi \$50,\$zerro, 5 addi \$51,\$zerro, 10 Jal ADDF add \$52,\$VO,\$zerro add \$52,\$52,\$50 add \$52,\$52,\$50

ADDF:
addi \$5P,\$5P, -4
SW \$50, 0(\$5P)
add \$50,\$00,\$00,\$00,1
add \$vo,\$50,\$zerzo
«Iw \$50,0(\$5P)
addi \$5P,\$5P,4
JR \$rea