Questin #1:-

$$A = 7.75$$

$$= 111.11_{2}$$

$$= 1.11.11_{2}$$

$$= 1.11.11_{2}$$

$$= 1.11.11_{2}$$

$$= 1.11.11_{2}$$

$$= 1.11.11_{2}$$

$$= 0.11.11_{2}$$

$$= 0.11.11_{2}$$

$$B = 10$$

$$= 1010$$

$$= 1.01 \times 2$$

$$= 2.3 \text{ complex}$$

$$= 0.61 \times 2$$

sign bit
00.11111 x 2
130

 $\frac{11.10111 \times 2^{130} \text{ Sign bit indicates it is } n - \text{Ve number}}{4 2 \text{ 's complet}}$ $= 00.01001 \times 2$ $= 1.001 \times 2^{128}$

Question #2:

addi sto, \$200, 100 addi sti, \$200, 55

for:

sti stz, sti, o

bne \$tz, szero, exit

sil \$t3, \$t1, 3

add \$t4, \$50, \$t3

sil \$t5, \$t1, 2

add \$t6, \$51, \$t5

Ow \$t7, o(\$t6)

sub \$t8, \$t0, \$t7

sw \$t8, o(\$t4)

addi \$t1, \$t1, -1

j for

exit:

