

Ahsanullah University of Science & Technology

Department of Computer Science & Engineering

Course No : CSE2214

Course Title : Assembly Language Programming Sessional

Assignment No : 02

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Section : A

A suppose that a byte contains the nSCII code of an upper case letter, what her number should be added to it to convert it to lower case.

in hexa is 41.

For converting ASCII cade of on upper case better to lower case better in decimal value 3210 should be added. So now we should convert 3210 in hera decimal value.

 $16 \frac{32}{0}$ 02. 30 the mena value (20) 16.

nena decimal number.

For each of the bollowing 16 bit signed numbers, tell whether it is positive or negative.

2.1 78 E3H 2.2, 9AC4H

> \$ 78 E 3 H

0111 1000 1110 0011

78 EBH = (0111 1000 MO 0011)

As the Most-significant bit (MeB) is 0 so

this is positive.

> SALGH.

1001 2 1010 100 0100

34A 9 A C4H = (100|1010 1100 0100)2

As the MSB 15 1 30 this is megative

cigned.

Crive the unsigned and signed decime! interpretations of each of the following 16 bit on 8 bit numbers.

3.1, XFFEh 3.2 XFAh.

⇒ 7 FF EH

Unsigned. $(7)_{10}$. $\Rightarrow 7 \times 16^{3} + f \times 16^{2} + f \times 16^{1} + f \times 16^{0}$ $\Rightarrow 7 \times 16^{3} + 15 \times 16^{2} + 15 \times 16^{1} + 14 \times 16^{0}$ $\Rightarrow 28672 + 3840 + 240 + 14$ $\Rightarrow (32766)_{10}$

-signed.

7 F F E / 1 \ 0111 /111 1110

As the MEB is 0 so this positive number so the decimal value is (32766)10.

⇒又FH,

Unsigned

$$(ZF)_{16} = (?)_{10}$$
.
 $\Rightarrow $7 \times 16^{1} + 15 \times 16^{0}$

⇒ (127) lo.

signed.

Here, MSB is 0 so this is positive.

and the decimal number of 75 H

is 1271,
