Name: Jeel Tikiwala Student id: 239659420 Lale 2: Part 2.

9:1

@ 02C1:074F

Physical =
$$(\text{degment} \times 16) + \text{offset}$$
.
= $(0201_{16} \times 16) + 1871_{10}$
= $(02010 + 074F)$
= $02010 + 074F$
Physical address = $0335F$
Ans : $0335F$

(1505 : 4 CCF

Physical = (degment
$$\times$$
 16) + effect
= (15CB₁₆ \times 16) + 4CCF
= 15C50 + 4CCF
= 15C50
4CCF
Physical address = $\overline{1}$ A 9 1 F

m = 1A91F

8-2

@ Physical Address C 4AP6, effect 8AB6

Segment : Physical address - offset

= C4A06 = 8AB6

E Physical address 52821038A80mine 13A3

0 | S2820 - 10480

 $=\frac{80020}{16}$

Signent = BCO2 Value

(empiral Address 1800C, offset 007C

Legment = Physical address - offset

= 1890CA-1007C : prose

we inverse formula to

= 18060 16 Segment = 1806 Value

Ornysical address AACDF, degment 6328offset = physical - (segment $\times 16$)

= AACDF - (6328×16) = AACDF - 9E480= 0E55F

use invuse formula to their

Physical = (segment x16) + offset.

= (6328 x 16) + 0E55F

= 19E480 + 0E55F

Verify: \[\frac{1}{2} \text{AACOF} \]

2 \$000 -2 \$000 -

| Signered = 1806 |

(b) 12.32 (9) -9.8 85.1 = 5x Nd.0 Sign = 0 Sign = 1 (1.1 = 5 x 22.0 0.8 x 2 = 1.6 1 9/2 = +4 R + 1 X 11-0 0.6 x 2 = 1.2 4/2 = 2 ROSAMS 0.2 X 2 = 0.4 2/2 = 1 RO 1 8 = reminder 0.4 x 2 = 0.8 1/2 = 0 RI 5 x d P. 0 0.8 x 2 = 1.6 = 4001= 5 X 485 = 1001. 1101 = 1001 0001 1001 ... 00 Normalize = +001 4+00+ 1001 1001 ... 00 x 23 leiased exponent = 127 + 3 = 130 0 10000001 @ X = 1.76 sign exponent significant 10000000 00011001 1001 1001 100 10000010 00111001 1001 1001 1001 100 0.16 X2 = 0.32 0-28 x 2 = 0.86 10100001 11010111 100 1010.0011 11010111 1000 1010 0011 = xilomon 10000101 x23 mared expenses = 127 + 3 = 130 01000001= outer categories grantinos 0001110 1011 1100 0101 0001 01000001 0 000 1110 1010 0101 0001 01000001 0 ma

 $0.011001100110011001512 \times 2 = 0.08$ $0.011001100110011001 \times 2 = 0.08$ $0.08 \times 2 = 0.16$ $0.16 \times 2 = 0.32$ $0.32 \times 2 = 0.64$ $0.64 \times 2 = 1.28$ $0.28 \times 2 = 0.56$

1100.0101 001 [110101] [000010]...

Normalize = 1100 0101 0001 [110 10]]

10000101... x 23

biased exponent = 127 + 3 = 130= 10000010

0 10000010 1000 1010 0011 1101 0111000

ons 0 10000010 1000 1010 0011 1100 0111 000

9 1 DIII/100 1000 0001 1000 1011 1011 100

diom = - Ne (negative)

exponent = 0111 1100

= 124 - 127

$$= -3$$

Normalize = 1. 10000001 1000 1011 1011 100 x 2-3

= 0.001100000001100010011 1011 100

$$=2x^{-3}+2^{-4}+2^{-11}+2^{-12}+2^{-16}+2^{-18}+2^{-19}+2^{-19}+2^{-29}+2^{-$$

$$= 0.18825$$

$$= -0.18825$$

Ans =
$$+18167.46582$$
 = 0.4668203125