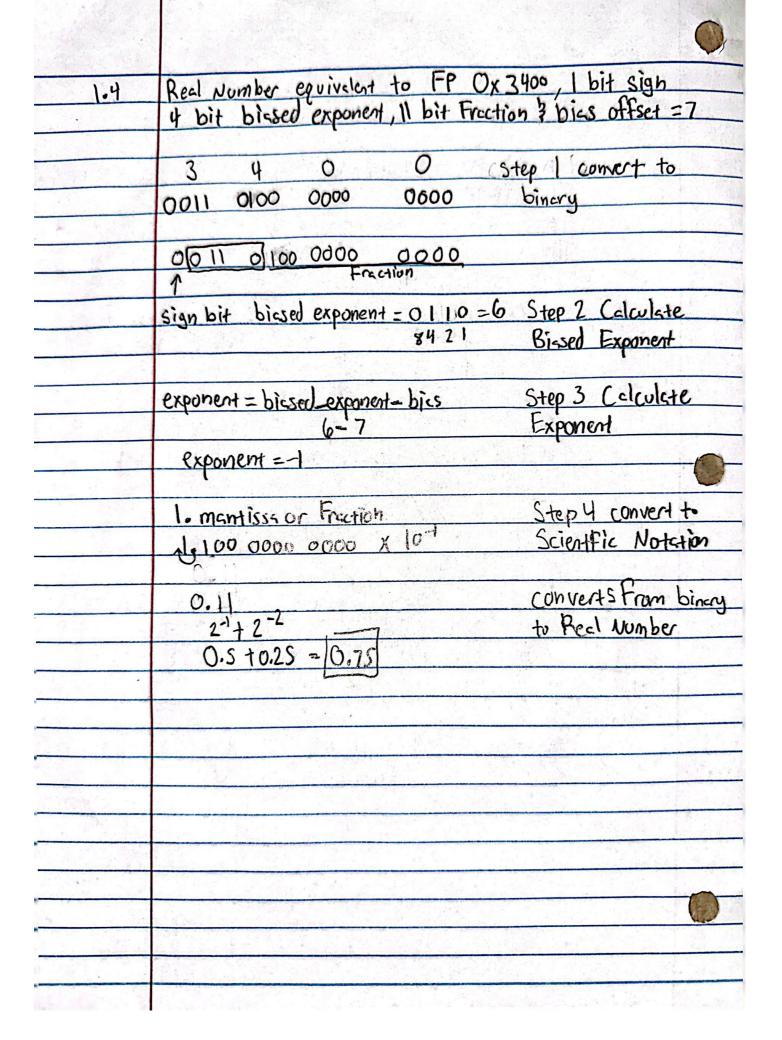
	Ruben Ortegs 137 Assignment 1
1.3	-S.375 as a 16bit Fp with 1 bit sign, 4 bit biased
	-S.375 as a 16bit Fp with 1 bit Sign, 4 bit biased exponent, 11 bit Fraction & 7 bit bias offset
	- S/2=2 R1 7375.2=0.75 Step 1 convert to binary 212=1 R0 : .75.2=1.50
	1501 . 56.2
	101
	101.011
	bicsed exponent = exponent + biss Step 2 convert to
- A	Scientfic Notation
	101,011 x 10 ²
	(01011 × 10 = 101.011
	Step 3 Calculate Biased 9=2+7 912=4RI) 1 exponent in binary
0	9=2+7 $9/2=4R1)$ exponent in binary $4/2-2R0$
	712 - 1 80
roid	$\frac{2/2 = 1 \text{ Ro}}{1 \text{ bissed exponent} = 100}$
4	Step 4 build IEEE754
	Mumber
Neg	tive 1 1 0 0 1 0 1 0 0 0 0 0 0
	Fraction/mantiss
	sign bit bicked
	exponent 1.01011
	Fraction/ment 155=
()	
4	



1,5	Recl number equivalent to FP 0x3400 with 1 bit sign, 4 bit biased exponent, 11 bit fraction, & bias offset=8
	4 hit biased exponent, 11 bit fraction, 3 bias offset=8
	2 4 0
	0611 0100 0000 0000 Step 1 Convert to binery
1	1 1
10.00	sign biased Fraction/mentissa
	bit exponent 100 0000 0000
	bissed exponent = $0110 = C$ exponent = biased_exponent - bias $100 = C$ exponent = $6-8$
	7^{+} 8 421 $-2 = 6-8$
	sup 2 coloulete
	bissed exponent Step 3 coludate exponent
	el 100 0000 0000 x 10 ² step 4 convert to
	Scientfic Notation
	Scientfic Notation
	0.5 +0.25 +0.125 = 0.375
1.14	What is a Von Neumann architecture bottleneck?
1.11	A Communication bottleneck between a Faster cpu & slower
	[1] 12 [1] 12 [1] 12 [1] 13 [1] 13 [1] 14 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [1] 15 [
	memory.
e < 14	
1 100	
The state of the s	~
0	
3 4 7 1	