

Course Name: _Computer Architecture Lab,

Course Number and Section: 14:332:333:04

Experiment: [Experiment # [1] – Intro To GIT and Number Representation]

Lab Instructor: Mengmei Ye

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Submitted by: [Smeet Kathiria, Ruid- 173000011]

Name-Smeet kathina. LAB-1 RUID->173000011 Alet 10-> Sbk91 0610001110 Binary to Decimal Binary to Hex. => Decimal = od =) 0b 10001110 => 0b 10001110 1000 ->8 1110 -> E=> 14. Hex= OX => OX8E =) od 142_ 2) OX C3BA -> Hex to Decimal Hex to Binary ((3BA)16=()10 ⇒ C3BA $3 \times 16^{2} = 768$ A=10 B=11 (=12 => 1/000011/011/010 => C 3 B A C X163 = 49 152 =) 061100001110111010 50106 =) Od 50106

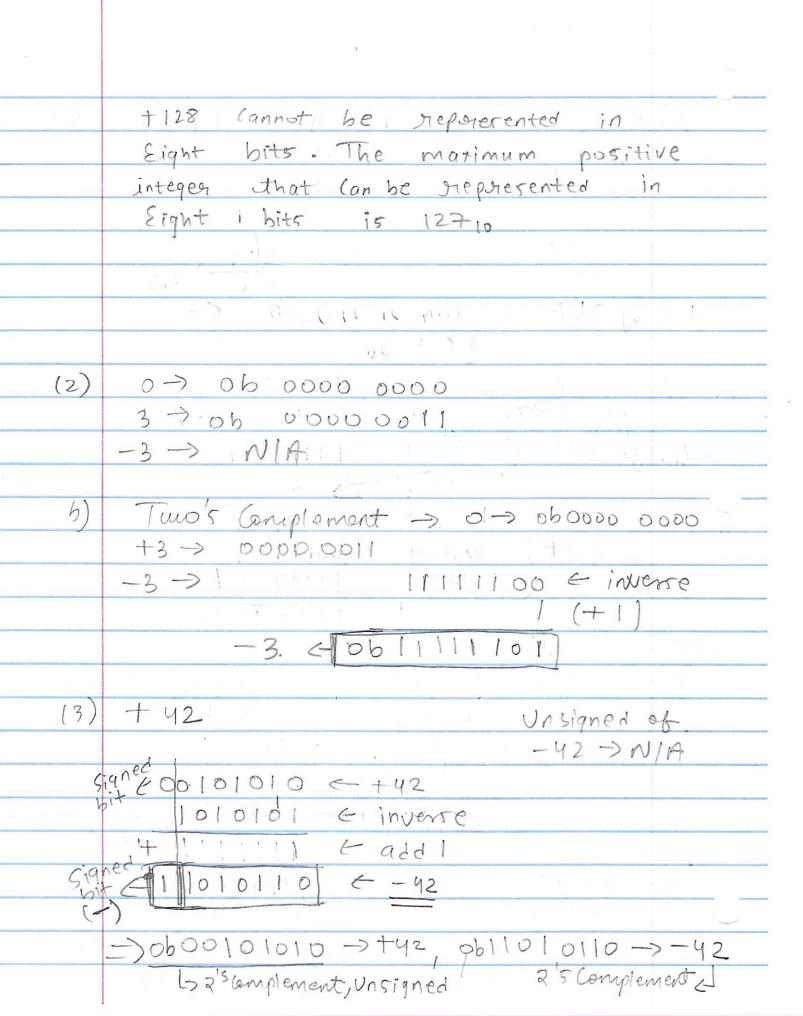
7.0					
3)	06100100100				
					2 1
	BintoHex	Bir	to De	cimal	
\rightarrow	0001001001000	=)	100100	100	
1,	124		0120+0	1 + 1x	$2^{2} +$
Į.	Transfill		0 x3+	0x24+1	125+
=>	0 X 124		0 4 2 6 4	+ fsxo-	-1×28
		=)	0 d 2	92	
4)	OXBCAI			. 71	
	Hex to Bin		Hex	to Dec	
	A = 10	-	→ BC	1 1	pro-
100	13 = 11			1×160	=
	C=12			> lox16	= 160
	R Z A 1			> 12 x 10	3=3072
	BZAI				
	+3 d × 1 *		- V		48289
	=) Ob 1011110010100	1000			
			=)	09 48	3589
	177				
	118 1 214 11	117	· eath a		
.10	177 50				

1 -

5->	0 < binary. 6 > 42
	→ 0d42
A	Decimal Odx O A -> 0x,0109,0010,
A	Hex Ox,0000, 42
	D -> 2, [42] O
99	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	2 5 1
7->	OX BACY 2 7.10
\mathcal{D}	Hex to Binary. A=) Ob 101010
*	B=11,A=10, C=12
CA	06/01/1010/1100/0100
	B A C Y
Δ_	
\Rightarrow	Hex to Decimal.
	BACY
	12×16° = 4
	$10\times16^2 = 2560$
-	$\frac{10\times16^{3}-4560}{11\times16^{3}=45056}$
-	
	47812
Λ.	> 0d 47812
	7 - 9 4 - 8 2

(b)		< -
	=) 2 ¹⁰ .2 ⁴ =) 2 ⁴⁰ .2 ²	
	=> 210.24 => 240.22 = 4T;	
	-> 16ki	
->	243	
	243 ⇒ 240,23	
	=> Ti. 8	
	=> 8 T;	
		l V
=>	23	
	2^{23} => 2^{2} .2 ³	
	=) 8ki	1. 1.
=)	2 58	
	258 => 25°-28	
	=> P:256	
	=> 256P°	
=)	264 > 260.24 > 16 Ei	
	260,24	
	16 F°	N
-		
		14

KME TREZY 6) 8 Ei => 23.260 => 263. (2) > 512 Pi =>. 29.250 => 259 256ki = 28.210 (2.2)Unsigned > 1111111 > 255 1 00000000 ->110 (langertinteges) Range of N-bit 2's Complement $-(a^{(n-1)})...o0...a^{(n-1)}-1$ =) $-(a^{(8-1)}) = -128....0...a^{(8-1)}-1 = 127$ [Two's Complement] 127,-128



(4) There is no Such integer. Asbitsary 8-bit mapping Gould choose to siepnesent no from 1 to 256 instead of 0 to 255 Using 2'5 complement of 6 to Prove that x and x'+1 Sumto o (5). where x = +6in, x' = inverse of +6 binary in binary. +6 -> 00000110 EX 11111010 6x1+1 Adding x and x'+1 => 00000110 +11111010 .. Hence Proved x +(x1+1) = 0 (6) Decimal is the radix for human hand Calculations. It is related to fact that human have 10 fingueres. Binary numerals are useful for Computers. Binary Signals are less likely to reproduce than vadix Signals as there is more distance.

<i>→</i>	Mexadecimal numbers are Convenient for
1. 1964	displaying Binary numbers. One Hex
1212	displaying Binary numbers. One Hex digit Corresponds four binary digits.
3.1	
1)	2
- \	0.T.D. 20. 01. V.200
2)	2) TiB = 2x 2 ki x 2 m; x 26; x 2 Ti => 210x 210x 210x 210x 210x 2 => 41 bits
3)	
	O .
1.	
	and the second that the second
-1 h., "	troop To be a transfer of the state of the s
	. enger 1/2 to the News
b	value to the same of the contract of the same of the s
186 T -	so of placed and are seen as a second of
	The second service of the service of