CLAME: MAOSOD DHMED	
DEPT: BSCS	
SUBJ: DLD	
ASSIGMENT #O1	
ID: 38186	

	PROBLEM: OI: : Maturial	
1		
	Convert the following binary number	(1
	in decimal is at bound as and	
	cleves much ber of bishay digit (bids)>	
	1. 2000年1月20日 1月20日 1月2	
٥١)	11110010	
	=> 11110010	
	$\Rightarrow (1x2) + (1x2) + (1x2) + (1x2)$	ý.,
	+ (0x2)+(0x2)+(0x2)	_ (ii
1	bett to enize damp who and of a visa must	
	=> (1x128) + (1x64) + (1x32)	
	$(10 \times 16) + (0 \times 8) + (0 \times 4) + (1 \times 2) + (1 \times 1)$	
	CONTROL ON THE PROPERTY OF THE	
	=> 128+64+32+16+0+0+2+1	
	=> 242 \ .	
b)	1110001.0001	
-)	- 1000110113104	
	$= (1 \times 2) + (1 \times 2) + (0 \times 2) + (0$	()
	(1x2) + (0x2) + (0x2) + (0x2) + (1x2)	/
	=> 64 + 32 + 16 + 0 + 0 + 0 + 1. + 0+ 0 + 1	)
-	+0.0625	
	+0.0623	
	112 200 F V	
	=> 113.0625   10.001101111 (c	
A Solid		
	2 010 3 4 4 4 4 4 6	
	11400110	
	00190410	

	PROBLEM: 02:-	
	What is the highest number that	
	can be movesunted by eight const	
	eleven number of bissary digit (bits)?	4
		(ja
	Fox 8 bits 28-1= 255	
	For 11 bibs 2"-1= 2047	
	((x)) + (x)) + (x)) + (x)	
(ii	Convert -2110 and -284 decimal	
	num bers to binary and using the	
	D's complement Jorm.	1
	이 전 :::[[설명하다 사고 [연장리] 그 그런 그런 그 모든 그리고 [[6] [[4] [[4] [[4] [[4] [[4] [[4] [[4]	
	First Convert 2110 and 284 in binary	
	2110=100001001110	
	284= 100011100	-
Allowed States	Envert the bids	1 64
	7 10000 (0	
	→01111011001	
	> 1000 111 00	
	2 1000 m 00 11 1 1 1 1 1 1 1 1 1 1 1 1 1	
*	1 + 0 + 0 + A (A) 1 000 (1	
	Add 1 im both	
	→ 011110110001	
	+1	
-	2211221222	
	-> 011100011 -> 011100011	
	+1	
The second second second	=> 011100100 }	
	=) 0111 00100	

		ore the last last line use last.
P	ROBLEM: 08:	
i) Ex	press Outiloodoloidil in sign-	(1_
mo	ignitude binary numbers in single	
Pre	chsim floating point format.	
	0 1 1 1 0 1 1 1 n	
	Sign bid Exponent Mandisa	2000
	0 /11111000/0101010000000000	2000
10 Da	termin the value of	
ii) De		
C,	ingle-precision Hosting point.	
•	CODING COLL SUMMERS OF ALEVER	(II
Sign		
=>	1 10000001 0160100110001000000000000000	1
	1 2 did-1 1 10 10 1 5	<u> </u>
-	129	
EXP	= (129-27)=2	-
		-
	Formula for single-pression 1ERE 754	
- A		1
Form	Horal - Jor Single-pression 12 2 134  Horal ma-poind number 11.  Laponend-biors) X1. Fract	ins,
	Mand & a	ins,]
	Tool ma-poind number 101.  mla1- [-1) signified x 2 (aponend-bies) x 1. Fract  Mand 219  (010010011100010000000000) = (1.30078125)	ins,]
	Mand & a	ins.]
=>)	Tool ma-poind number 101.  mla1- [-1) signified x 2 (aponend-bies) x 1. Fract  Mand 219  (010010011100010000000000) = (1.30078125)	) lo

DATE: \_\_\_/\_\_\_

<u>U</u> -		
	PROBLEM:04: 60:	
	TROBUE IN: UY:	
Ci	Convert decimal number 1156 to 8421	i
	sight wid must provid shotispers	
	Prediction floations Down & Armale.	
	First convert each digit to Tos	
	4-bit BCD representation.	
	000000010110000110000110000110110000000	
	5: 0101	
	6: 0110	
	Combine BCD representation	
	>> 00010101010 Q.	(ii
	2020202010201102012212 10000001 L	
	- Javing Kar-hage williams - 1 km/s	
ii)	Convert BCD number 1000 DIII0000	
	to decimal:	
	1000001 <del>000</del> 10001100 10000000 10000000000	
	seperate 4-bibs	
	1000: 8	
	01112 7	
	0000: Q	
	121 12 21 nept 20 - 1/2 ne 201 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
-	Company of the Compan	
-	BCD 100001110000 = 870 in decimal	$\mathbb{Q}$
		4
	1 (2 C2 C2 T00 E 1) 5 (2000 2000 12 C2 Miss of 1 C)	
	The state of the s	
	A Labor - Sisted Dy Dy Tak Steller at AV	
	Z 521922100m =	

-	-180 mt = 160 m = 1	
iii )	Add the BCD numbers:	
	A CONTRACTOR + 10001010 A	11
	IT MAYORE TO MO JOSES - 1 12 A. FUNDANCE	
	de 1001011 51 000012 5 00 1000	
	JUNE 1100 STANDING 001101010 5 0011 0010	
	0001:1	
	Adding together	
	and the state of t	
	5+1+5+8=19	-
		-
		-
		4
		_
	The action of the contract of	
		_  _
(vi	Convert binary number 1111011101110	
	to gray add.	
	<b>9 9</b>	
		1
	1+-1 +-1+1+0+1+1+0+1+1+1	
	7 7 7 7 7 7 7 7 7 7 7 7	0
	111101110111	2
	1011011101110	
411		

	DAIE:/
	PROBLEM:05:-
	Avadeur GDG Walter John
i	A certain missage in uncaded using
-	radded ASCII-Ede and Stored
	in memory as "01001000 01000101  01001100 01001100 01000101 What
	01001100 01001100 01001111 What
	is the message.
	U
	Bimary Number ASCII VALYE
	01001000 =72 48 69 = H
	01000101 = 69 100 = E
	01001100 #76 L
	01001100 = 76
	01001111 = 79
	The Encoded message is "HELLO".
-	9
	Omenically reduce (resid drawn)
A CHARLES	ished porge of
4	
Concession of the	

	JAIE:/	
ii)	An odd-pority bid is also included at the and of each ade group?  (Hint: Remunerber that this is a BCD ade).	
<u>a)</u>	100001010000	
	Odd parity bit. Even	
<b>b</b> )	0100011101100 Even Penidy Dit.	
د)	Oll 1100 00011 Odd persty bit.	
d)	1000011800101 Odd Projdy bit.	
	"The End"	