(edlädeit) Num	bering systems.	
	and the second	
11 Decimal system.	15 ist 1 18 11 11	
Decimal system.	·Mil.	
The base is 10	القافرة ١٠	
		to the second
Binary system. (;	النكام الخالئ (لغة اللمبيرة	
> 2 digits (0,1)		and the second of the last of the second
The base 182		
0.109		
Octal system	نكام الطهاني	
-> 8 digits (0 -> 7)	(01101), (01	
Ly The base is 8	22	
	2	
Hexadecimal system	النياك العادين عنس	
16 digits (0-,96	$A \rightarrow F$	
The base is 16	K 28 1	
1010:-		
2010:	And the second	MANAGE BETTE STEEL S
4 digits		
4 bits		
nibble		
+ byle.		Constitution of the second
* 4 bits forma NIBBLE	A	
Q 1.1 - C 1.2 - 1 1/0		
* 1 digits forma bit		
* 2 bytes form a word		
STUDENTS+HUB.com a word	Uploaded By: ano	nymous

R=1

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From Decimal to Hexadecimal 1-

$$\frac{3\alpha/16}{2/16} \rightarrow 2 \qquad R = 7$$

$$2/16 \rightarrow 0 \qquad R = 2$$

Result

$$\frac{2}{16} = 0.125$$

$$\Rightarrow (2q) \Rightarrow (1110)$$

$$2q/2 \Rightarrow 14$$

$$14/2 \Rightarrow R = 0$$

$$7/2 \Rightarrow 3$$

$$R = 1$$

$$3/2 \Rightarrow 1$$

$$1/2 \Rightarrow 0$$

$$R = 1$$

$$= \frac{29}{10} \xrightarrow{10} \frac{35}{8}$$

$$29/8 \xrightarrow{} 3 \qquad R = 5$$

$$3/8 \xrightarrow{} 0 \qquad R = 3$$

$$\Rightarrow (29) \rightarrow (10)_{16}$$

$$29/16 \rightarrow 1 \qquad R = 13 \stackrel{\sim}{\longrightarrow} D$$

$$1/16 \rightarrow 0 \qquad R = 1$$

$$\Rightarrow (2q) \longrightarrow (104)$$

$$2q/5 = 5 \longrightarrow R = 4$$

$$5/5 = 1 \longrightarrow R = 0$$

$$1/5 = 0 \longrightarrow R = 1$$

### Converting from any other system to decimale.

$$\frac{(10110)}{(10110)} \xrightarrow{} (22)$$

$$1 \times 2^{4} + 0 \times 2^{3} + 1 \times 2^{2} + 1 \times 2^{4} + 0 \times 2^{6} = 18 + 0 + 4 + 2 + 0 = 22$$

$$\frac{(1010)}{(1010)} \longrightarrow (10)$$

$$1112^{3} + 0112^{2} + 1112^{1} + 0112^{0} = 8 + 2 = 10$$

$$\begin{array}{c} (0010) \\ 0 \times 2 \\ + 0 \times 2 \\ + 1 \times 2 \\ + 0 \times 2 \\ \end{array}$$

$$(101) \longrightarrow (5)_{10}$$

$$1x^{2} + 0x^{2} + 1x^{2} = 4 + 0 + 1 = 5$$

$$(39)$$
  
 $+ \times 8 + \times \times 8 = 32 + \times = 39$ 

$$(2x)_{16} = 3(3q)_{10}$$
 $2x16 + x + 16 = 32 + x = 3q$ 

#### STUDENTS-HUB.com

$$= \frac{(11101)}{11101} = \frac{(11101)}{2} = \frac{(111$$

$$=$$
  $(36)$   $=$   $(36)$   $=$   $(36)$ 

$$3 \times 8' + 5 \times 8^{\circ} = 24 + 5 = 29$$

=> 
$$(10)$$
 \_\_\_\_ (10)  
 $1\times16 + 13\times16^{\circ} = 16+13 = 29$ 

$$1 \times 16 + 13 \times 16^{\circ} = 16 + 13 = 29$$

$$=\rangle (104) \longrightarrow ($$

$$1 \times 5 + 0 \times 5 + 4 \times 5 = 25 + 0 + 4 = 29$$

=> Convert from Binary to other system?-

$$(298)$$
  $\longrightarrow$   $(452)$   $=$ 

Binary to Hexadecimal) ?-10010101b = (95) 1x2+0x2+0x2+1x2 = 8+0+0+1=9. 0 x23 + 4x22 + 0 x21 + 1 x2 = 0 + 4 + Q + 1 - 5 35 011 0x2+1x1+1x2 + 1x2+0x2+1x20= 35 Ellitot in tot in) > (7575X 00011101) E42 1 8 4 21 111 60011 STUDENTS-HUB.com Uploaded By: anonymous

Binary to any other systems; 11101 5 = 16+8+4+0+1=29 1x2 + 1x2+1x2+0x2+1x2 104 R= 4 R = B R =

حل بعان الأسئلة: -(35) -> ( 100011) 35/2 -> 17 R=1 17/2 -> 8 R=1 8/2 -> 4 R-0 4/2 -> 2 R=0 2/2 -> 1 8:0  $1/2 \rightarrow 0 R=1$ (105) (0001 1101 1111) [5] (1213111321), (100111010101111001) لما أن في النفا الثباني نعضم التلاخران ر الدادس عنز الراعات 101 ن الناااله العراك المنا النا الله المالاله العراك المنا الماله العراك المنا الماله العراك المنا الماله المنا الماله المنا الماله المنا الم 11 61941/8 -> XX42 R= 5 7742/8 -> 967 R= 6 (170765) R= X  $967/8 \rightarrow 120$   $120/8 \rightarrow 15$ R = 0 R = X STUDENTS-HUB.com Uploaded By: anonymous R=1

 $\begin{array}{c} \overline{X} & (AB) \\ 0 & 0 \end{array} \xrightarrow{10} \begin{array}{c} (00101011) \\ 2 & 0 \end{array} \xrightarrow{2} \begin{array}{c} 0 & 1 & 0 & 1 & 1 \\ 0 & 0 & 1 & 0 \end{array}$  $(23)_{\mu} \longrightarrow (11)_{10} \longrightarrow (13)_{8}$ 2x4 +3x40 = 9 +8 +3 = 11 11/8 -> 1 R= 3  $(35) \rightarrow (26) \rightarrow (32)$  $9x7 + 5x7^{\circ} = 21 + 5 = 26$  $26/2 \rightarrow 3 R=2$  $\overline{10} \left( \overline{72E} \right)_{18} \longrightarrow \left( \begin{array}{c} \\ \\ \\ \\ \end{array} \right)_{R}$ (72E)  $\rightarrow$  (011100101110)  $\rightarrow$  (3456)02220010 2110

Esigned numbers:3-

योजी। मिर्मे

عملية اللاح عبارة عن عملية جمح لونم سالن

Signed magnitude = ©

One's Complement = ©

two's Complement = ®

Signed magnitude: -

@ بنمنني عمم غيادة ولسا الهم دسي fid neis

(A) 101 145 acco (A)

 $E_{X}=(6)_{0}=(110)_{2}$ 

 $6/2 \longrightarrow 3 \qquad R=0$   $3/2 \longrightarrow 1 \qquad R=1$   $1/2 \longrightarrow 0 \qquad R=1$ 

> sign bit.

+ positive 6 -> = 0110

- Negative 6 -> 1110

المسكلة الى بح يواجها هي عدم محرفة الزاكان هذا الله يمثل المطاورة المسكلة الى بح يواجها هي عدم محرفة الزاكان هذا المسكلة الى بح يواجها هي عدم محرفة الزاكان هذا المسكلة الى بحرف الى بحرف المسكلة المسكلة الى بحرف المسكلة الى بحرف المسكلة المسكلة المسكلة الى بحرف المسكلة ا

الحل من العرب من العرب من العرب من العرب العرب

	Enes complement;
	Complement :
	Change all bits that are 1 to 0 and all bits that are 0 to 1  ( و بنغير الن (نفلا) 0 نمح 1 / 1 دعج 0
	12) Reversing the digits in this way is ealled  Complementing a number.
	13 If x is positive (+) convert x to binary (1) of x in bin
	D Reverse each bit
	Ex: How to represent 1,-1, 5 and -5?
	$(1) \longrightarrow (1)$ $10 \longrightarrow 2$
State Control of the Control of C	$1/2 \rightarrow 0 R = 1$
	AND FAMOUR OFFICE OFFICE
	بمنى ۱۷ أصفارى البرسار حتى يكودة ا ۲ الم
	1→ 0001
	पिन् 1 कर का थी तहा अप व्याप
general per company i de la seria de la conferencia de la conferencia de la conferencia de la conferencia de La conferencia de la conferencia del la conferencia de la conferencia de la conferencia de la conferencia del la conferencia de la conferencia de la conferencia del la conferencia	$-1 \rightarrow 0001 \rightarrow 1110$ 13 comp.
	5 -> 0101
and the second	Cyc Go
5/2 7 2	$\begin{array}{ccc} h=1 & -5 \rightarrow 0101 \rightarrow 1010 & 1\text{scomp} \\ R=0 & & & & & & & & & & & & & & & & & & &$
	S-HUB.com Uploaded By: anonymous

# Two's complement:

$$\Rightarrow (1) \rightarrow (0001)$$

$$\Rightarrow (-1) \to (0001) \to (1110)13 comp + 1$$

$$1110$$

$$\Rightarrow (5) \rightarrow (0101)$$

$$=>(-5)$$
  $>(0101)$   $>1010$  1's comp  
1 +  
1011 2's complement.

perform the following subtraction using two3 complements.

$$\Rightarrow (\overrightarrow{x}) - (1) = 3$$

$$\begin{array}{c} (\overline{X}) \rightarrow (0111) \\ \overline{X}/2 \rightarrow 3 R_{-1} \\ 3/2 \rightarrow 1 R_{-1} \end{array}$$

$$(x)_{10} + (-1)_{10} = (0111) + (1111) = (0110)_{2}$$

$$(x)_{0} + (-1)_{0} = (6)$$

$$\Rightarrow (16) - (81) = (16) + (-81)$$

$$(16) \rightarrow (00001110)$$

$$\Rightarrow (16) \rightarrow (00001110)$$

$$\Rightarrow (10) \rightarrow (00001110)$$

$$\Rightarrow (10) \rightarrow (00001110)$$

$$\Rightarrow (14) \rightarrow (144) \rightarrow$$

perform the following subtraction using 13 and 23 complements- $\frac{10010110}{1+2$comp}$   $\frac{1+2$comp}{10010111}$ (R) + (10010111) 0000 0111 3/4 10010111 3/10011110

## Econverting Fractions)

I From Decimal to other system:-

(Rule) Meltiply the number by the traget base and take in right order ( con cisio)

$$E_{K_{2}} \Longrightarrow (0.25)_{0} \longrightarrow (0.01)$$

$$0.25 \times 2 = 0.5 \\ 0.5 \times 2 = 1.6 \\ 1$$

يمير العدد معن

$$\begin{pmatrix} 0.25 \\ 10 \end{pmatrix} \rightarrow \begin{pmatrix} 0.2 \\ 0 \end{pmatrix}$$

$$0.25 \times 8 = 2.0$$

$$\begin{array}{c} (0.25) \longrightarrow (0.4) \end{array}$$

$$0.25 \times 16 = 4.0$$

[2] From any other system to Decimal: 
(0.154) =  $1 \times 10^{1} + 5 \times 10^{-2} + 4 \times 10^{-3}$  10 = 0.1 + 0.05 + 0.004

$$\Rightarrow (0.01)_{2} - > (0.25)_{0}$$

$$0 \times 2^{1} + 1 \times 2^{2} = 0 + 0.25$$

$$\Rightarrow (0.2) \longrightarrow (0.25)$$

$$8 \longrightarrow 0.2 \Rightarrow 2 \times 8 = 0.25$$

$$= (0.4) - (0.25)$$
 $= 0.25$ 

(0.2) (0.01)<sub>2</sub> octal to Binary 000,010 48.875) R=0 R= 0 24/2 -> 12 110000 . 111 R=0 12/2 -> 6  $6/2 \rightarrow 3$ R=0  $3/2 \rightarrow 1$ R=1 R=1 1/2 ->0 R=1175 0.875 X2 0.75 x2 R= 15

0.5 X2

operations on Binary numbers .-=> addition and subtraction  $(4)^{10} + (1)^{10} -$ 1/2 = 0 R = 1  $(7)_{10} - (1)_{10} = (0000 0111)_{10} + (-1)_{10}$ (1)  $(0000\ 000\ 1)$   $(1111\ 1110\ 1^3\ comp$ 2 1+ Whipy Wie 1111 1111 23 comp over flow 10000 0110 bit drop the over flow الاحاده ع 110 و 0000

$$(32)_{8} - (0)(1)(10)_{2} = (32)_{8} \Rightarrow (011010)_{2}$$

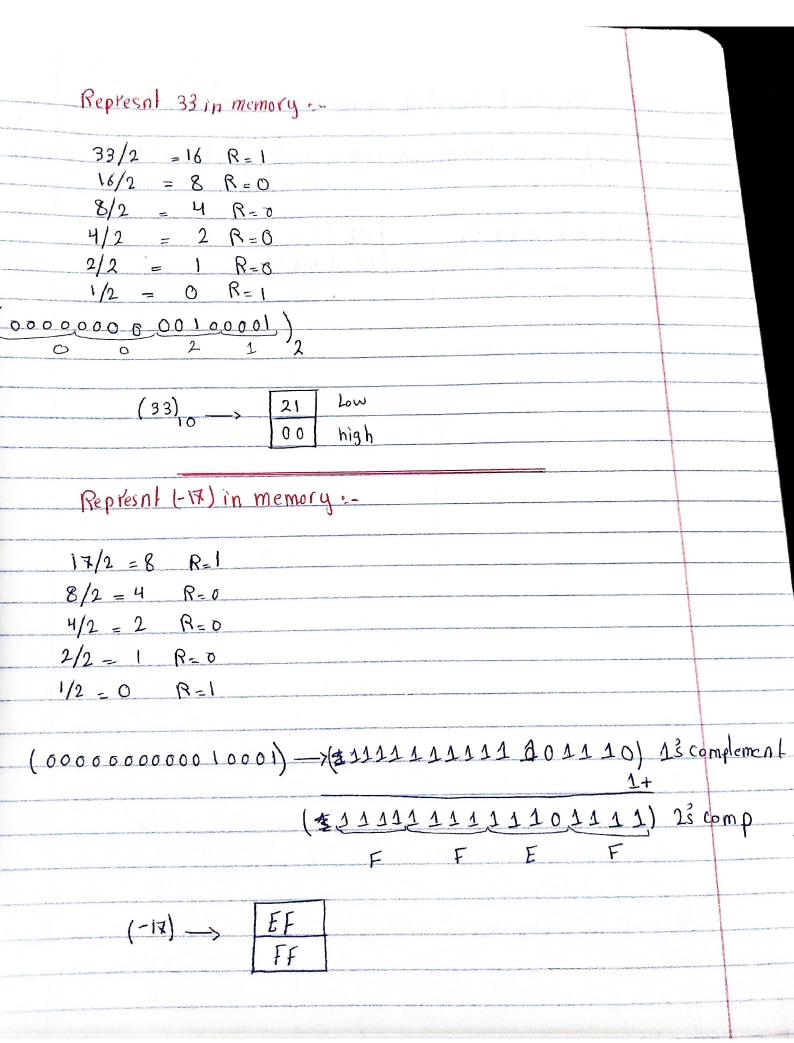
$$011 010$$

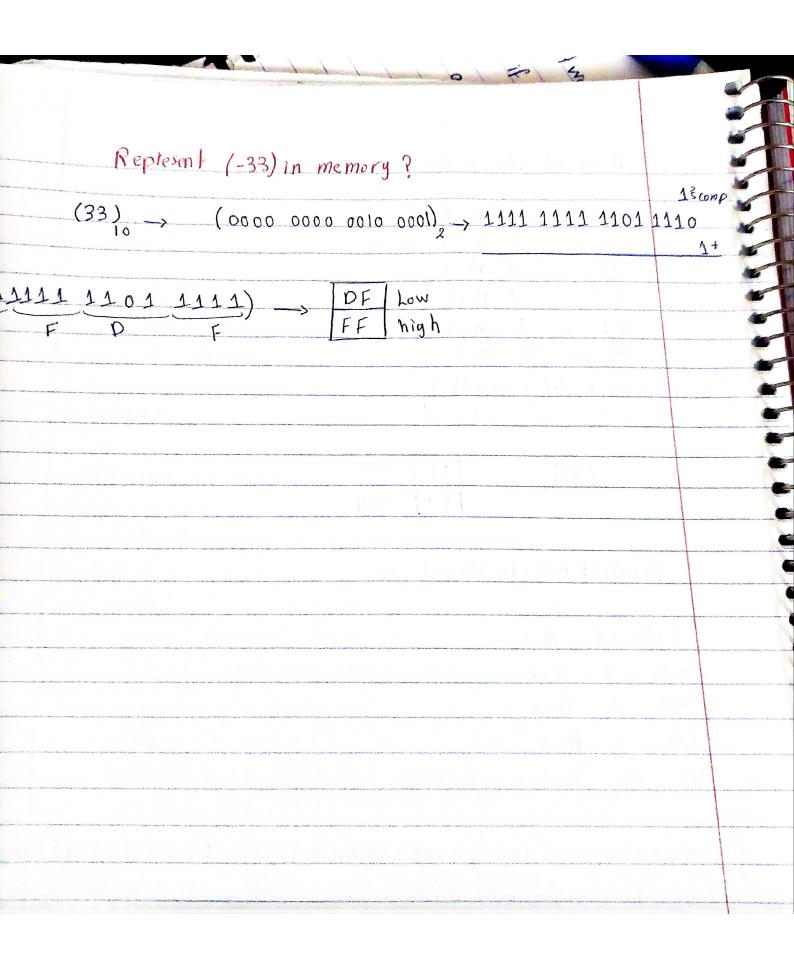
$$(0001 1010)_{2} + (-01111 110)_{2}$$

$(3x)$ $(3q)$ $\rightarrow$	( )2		
3×/2 -> 18 R=1	$(39) \rightarrow ($	)	
18/2 -> 9 R=0	10	2	
9/2 -> 4 R=1	$\frac{3a}{2} = 1a$		
4/2 -> 2 R=0	19/2 = 9		
$2/2 \rightarrow 1  R=0$	$\frac{q}{2} = 4$		
$1/2 \rightarrow 0 R = 1$	$\frac{9/2}{2} = 2$	R = 0	118
(00100101)		R=0	
	1/2 = 0	1/2	
	(00 1 00 11.	1) - (11011	000 \ 13 co
	(00 1 00 11.	1) > (11011	1 +
		11011	001 230
		0.01110.0	
00100101			
11 011001			
	11-11		
(11111110)	الحواب	1 5 1 1 1	
	الحوال	881 7	1281
(11111110)	الحواب		128)
(11111110) $(3x) - (3q) = (-2)$	الحواب	0.81 ). Zo a	التد
	الحواب		التد
(11111110) $ (3x) - (3a) = (-2) $ $ 10$	الحوا ب		التد
(11111110) (37) - (39) = (-2) (0) = (0)		70.0	التح
(11111110) $(37) - (39) = (-2)$ $0$ $0$ $0$ $0$	1110	و من المجال	التح
(11111110) $(37) - (39) = (-2)$ $0$ $0$ $0$ $0$	11110	مة مة الحواب لغلب	
(11111110) $(37) - (39) = (-2)$ $0$ $0$ $0$ $0$	1110	مة مة من المجال الم	
(11111110) $(3x) - (3a) - (-2)$ $0 0 0$	11110	مة مة الحواب لغلب	

Data Representa	م لزن السِانات ( عاد السِانات )	3
=>	ص أشكال السائات	
San Dan Barran Barr		
	الأعماد الصحيحة	
* Character's	الحري الأصامات	
* tractions ?	الأعدا والعقيصة اللسرما	
Inlegers	I Linen LL	
1111tyers	0 6 1 0 0 1 1	4.0
=> we use two bytes (	16 bits) to represent	an integers.
Example: Represent (1	7) in memory.	
\$ (.)	النكاع العشوي إلى الثناء	II celiai
Line hator 19	ا مزلة (بع) عشان است	7 Viladi IFI
rwo ngres.	cind we Hex ~ V is	الما در الما
[M]E	COJAS OF LIEK	
17/2 = 8 R = 1		
8/2 = 4 R = 0	(10001)	$\mathcal{O}_{\mathcal{I}}$
4/2 = 2 R = 0	2	mper committee and the second of the second
Manus Allen of the Association And Leavis and the Association and		agusta da regue desen que forma prophetica e una mercanica con en en esta de la fille de grande de la company
$\frac{2}{2} = 1  R = 0$		
1/2 = 0 R = 1	a may will galake entre protessing minimar of the green in the first in the minimar and the second in the second second and the second	en de entre en grant parties de la composition della composition
0000000	0 00010001	F)
0		
		(M.)
$(17) \rightarrow 00 hi$	The second secon	
10 11 11	,	

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# (characters (i)) => we use 1 byte (8 bits) to represent characters (ASCII)

(65) (

) in memory.

للا نحولها لا نظام منا في

$$2/2 = 1$$
 R = 0

(0,1000001)

ن لشد يُعم مَفْنَ

أَطْي الأمان أرجي

2000

Parity bits

even panty

ग्रंटी कर विवाध रेट क

web sunfalo

हिर्गे

pointy bit to to parity; makes the number of ones even as odd, , , , , , , , odd.

table. No Hex U Joy []

0100 0001

41

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Represent Noor in memory:  $N \longrightarrow (0100,1116,1)$ 

0 -> ( 0 110, 1111) r -> ( 01110010)

Using the even paraty to represent the character Rin the computer memory:-(Hint R=82 in ASCII):-

in memory,

82/2 = 41 R-6 > parity bit. 41/2 = 20 R=1

20/2 = 10 R=0

R=0

1/2 = 0 R=1

Eractions):- We use 4 byets to represent fractions

( Montussa representation):-

=> Ex:- Represent (48,876) in memory

الم بحول عن النكاع العشوى إلى الثنائي (العدد العميم لعال واللسول لحال).

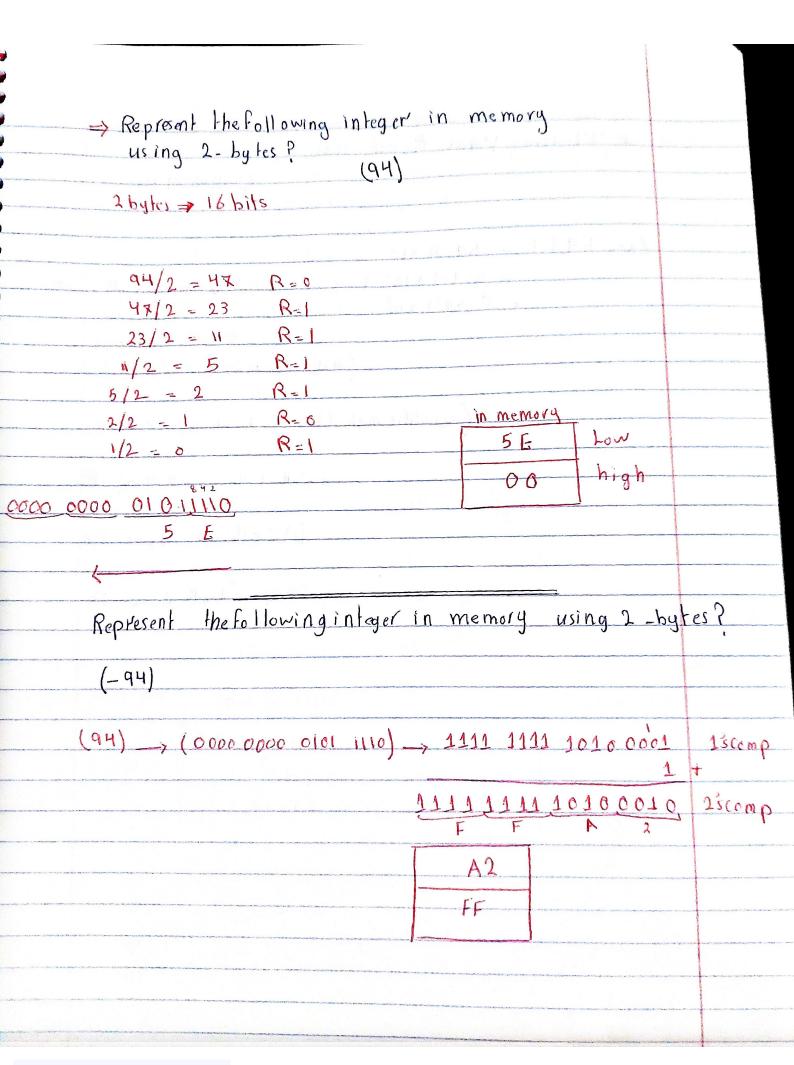
$$48/2 = 24 R = 6$$
 $24/2 = 12 R = 6$ 
 $6.75 \times 2 = 1.5$ 
 $12/2 = 6 R = 0$ 
 $6.75 \times 2 = 1.0$ 
 $6/2 = 3 R = 6$ 
 $3/2 = 1 R = 1$ 
 $0.875 \times 2 = 1.75$ 
 $0.5 \times 2 = 1.5$ 

(110000)

(48.875) -> (110000.111)
2
(48.875) -> (10000.111)
2
(48.875) -> (footing point

(scientific method) = aux de 65 P'xx (=

	,	word Della
Exa- use the odd pari	ity to represent the	
in the computer me	mory:	
		8422
Hint: 0 = 68	TORKER BERTHAM	1
	Construction of the second	
1 = 108	and the control of the section of the control of th	
1 - 108	L. Hall A. Chan Book	
0 - 111		
1011	101/0 (-01)	108/2 = 54 R=0
68/2=34 R=0	101/2 = 50 R=1	
34/2 = 17 R=0	50/2 = 25 R = 0	54/2 = 27 P=0
17/2 = 8 R = 1	$\frac{25}{2} = 12 R = 1$	27/2 = 13 R=1
8/2 - 4 R=0	$\frac{12/2}{6} = 6 R = 0$	13/2 = 6 R=1
4/2 = 2 R = 0	6/2 = 3 R=0	6/2 = 3 R = 0
$\frac{2/2}{1/2} = 1  R = 0$	$\frac{3/2}{1} = 1 R = 1$	8/2=1 R=01
1/2 = 0 R=1	1/2 = 0 R=1	1/2 = 0 R = 1
		(name)
11000100	11100101	1,110,1100
125C H	E 5	F
111/2 = 55 R = 1		
55/2 = 27 R=1	CHI	
27/2 - 13 R=1		
13/2 - 6 R-1	E5	
6/2 = 3 R=0	E.C.	
3/2 = 1 R-1	EC	
The state of the s	LEF	
Mind Rel	No services and	
4.10.111		
the second secon		



Floating Point Representation)	
قَوْلِهَا النَّهُ اللَّهُ اللّ	ran isang mengangan kenanggan kenanggan kenanggan kenanggan kenanggan kenanggan kenanggan kenanggan kenanggan
Ex:- 54.3.1 = 54.31 x10	
= 5.431 × 10 <sup>2</sup> ] -> boty i'x you we fill	U
Scientific method	
. ( كامالحا المنابع بنه لهد دول به المالمالة ) .	Marin Maderman and Law Space Application of the Control of the Con
(scientific method) rept de voti Pix []	
H cay ller 12/ lles	
BI ver 12 illi	
Hex Vols Vor [6]	
	all to grant likely light to the state which to be in
	and the second

Ex: show the memory representation of the number (43.625) using 32 bit Floating point representation. بحدد الونم من نكاع عشر ي لا تناكي . III 0.625 + 2 = (1)25 43/2 = 21 R=1 0.25 + 2 = 0.5 21/2 = 10 R=1 0.5 1 2 = 10/2 = 5 R=0 5/2 = 2 R=1 1/2 = 0 101011  $(43.625) = (101011.101)_{2}$ scintific notation plism! 1 لاً أم على يسار الفاجلة برقم واحدفقعا 101011.101 = 1.01011101 x 25 Mantissa field. 1bit sign field Exponent Field 0 36 V Rule = X + 12 x Exponent ( 5 sell) = 5 + 12 % = 132 = (10000100)2 E 8 0 ~ Memory 00 80 2E Uploaded By: anonymous STUDENTS-HUB.com

Numbering System: Al convert the following: (00011110) 30 0 + 64 + 32 + 0 + 8 + 1 = 105 1000100011000 243 136 R=0 R=0 11.010.11 26/2=13 R=0

0.2 X 2 -0.4

) use 2's complement and 8 b.ts.

$$32/2=16$$
 R=0  
 $16/2=8$  R=0  
 $8/2=4$  R=0

$$4/2 = 2$$
  $R = 8$ 

 $(00.100000) \rightarrow (110.11111) 13 comp$ 

$$(8) (72) \rightarrow (114)$$

7X8 +2X8 = 56+2 =58

F= 15  $(0.15) = 1 \times 16^{1} + 5 \times 16^{2} = 0.0820313$ (B) solve the following using 8 bits and 23 complement. 回 (OIIIIII) - (76) = (0111111) + (1010100 ) = ( 76/2 = 38 R=0 1 5/8 38/2 = 10 R=6 19/2 = 9 R=1 9/2 = 4 R=1 4/2 = 2 R=0 2/2 = 1 R=0 (01001100) -> 10110011 1's comp 10110100 23 comp

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$$D 25/2=12 R=1$$

$$12/2=6 R=0$$

$$6/2=3 R=0$$

$$3/2=1 R=1$$

$$1/2=0 R=1$$

#### (11001:1)

$$[2] 1.10011 \times 2^{4}$$

$$[3] \times + 12 \times = 131$$

$$131/2 = 65$$
 R = 1  
 $65/2 = 32$  R = 1  
 $32/2 = 16$  R = 0

$$16/2 = 8$$
 R= 0  
 $8/2 = 4$  R= 0  
 $4/2 = 2$  R= 0

$$2/2 = 1$$
 R= 0  
 $1/2 = 0$  R= 1

Memory:

00	Low
00	The second control of
CC	
C1	high

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MONTON

مل الاسايمنين

using 8 bit pattern and two comp, Find the answers

A) 
$$(35)_{16} - (36)_{7} = (36)_{10}$$

$$(35)$$
 +  $(-36)$ 

$$(36) \xrightarrow{\phantom{a}} (27) \xrightarrow{\phantom{a}} (00011011)$$

$$3/2 = 1 R = 1$$

X overflewbit

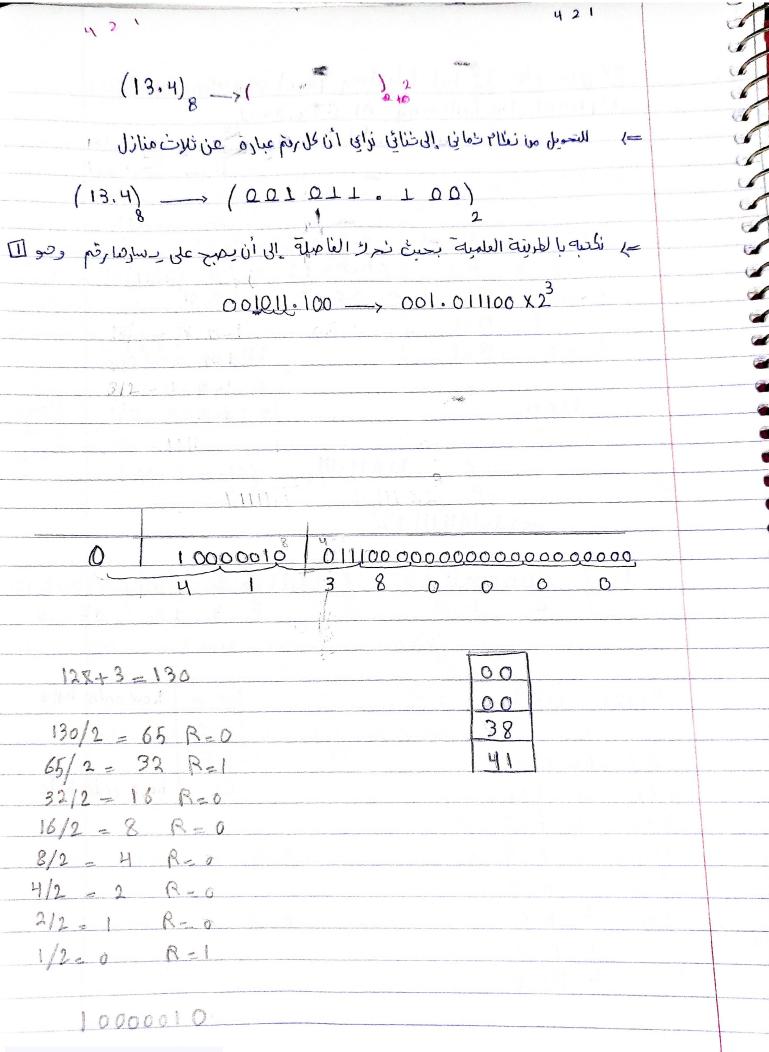
$$\frac{d^{2} + e^{4}}{(53) - (27) = (26)_{10}}$$

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$$(26) =$$

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3/ use the 32-bit floating point representation to represent the following A) (-27,875), 6
B) (13.4)8 A) (-27.875) 0.8×5×2 = 1.1×5 27/2 = 13 R=1 0. 75 x2 = 1.5 0.5 x 2 = 110 6/2 = 3 R=0 3/2 = 1 R = 11.11 11011 11011:111 => 1.1011111 X2 100,000 1,1 Low order byte 4+127 = (131) 00 0 131/2=65 R=11 high order byte CI 65/2=32 R=1. 32/2 = 16 R=0 16/2 = 8 R= 0 8/2-4 R=0 4/2 = 2 R=0 2/2=1 R=0 R= 1



The Welling 11	ients affact value in the compater	
me man war sol I fi	isents affoat value in the computer	
Find out the document vi	ralue for this representation	
(show the Soultion step	κ).	and the second state of th
OO LOW		
00		
al		Market and the state of the section
CI hìgh		
		12
	C1 91 00 60	8421
11000001 1,	001 0001 6000 0000 0000	
ear 1/45		
(10000011) ->(		
× 6 5 4 3	10	101
1x2+0x2+0x2+0x2+0x2+		131
131 - 127 = 4 5,531		
	(-1.00,10001 X2	
1	1 - 1001 - 22.5	
	) ( [10010.001)	
10		:1
	2+2"+2-3-(18.125	
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Sim		
Represent the following two integers (2bytes each using 2360 np in computer memory (Hex representation) 34,-21	)	
$(34) \rightarrow (2)$	general contraction of	
34/2 = 1× R=0		
17/2 = 8  R = 1		
8/2=4 R=0		
$\frac{4/2 = 2}{2/2 = 1}$ R=6		
$1/2 = 0 \qquad R = 1$		
000000000000000000000000000000000000000		
0 0 2 2		
(-21)		
10		
21/2 = 10 R = 1		
10/2 = 5 R = 0		
5/2 = 2  R = 1		
2/2 = 1 R=0		
1/2-0 8-1	-	
(12222222222222222) 13com	0	
8800000 .0.0.)	4	
F F F B		
	-	
EB		
FF.		

Represent the following word in memory (8-bit ASCII chars using even parity) cat C = (67) -> (1000011)2 a = (97) -> (110 0001) 2 +=(116), -> (1110100)2 C:- (67) 67 2 = 33 R=1 97/2 = 48 33/2 = 16 R=1 16/2 = 8 R=0 24/2 = 12 R=0 8/2 = 4 R=0 12/2 = 6 4/2 = 2 R=0 6/2 = 33/2 = 1 R=1 1/2 = 0 R=1 (1100001) (11100001) (H) ->(116) ->( 116/2 = 58 R-1 in memory 58/2 = 29 R=0 C. Carrie 29/2 - 14 B=1 EI 14/2 = X R=0 XH 7/2 + 3 R=1 8/2= 1 R=1

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