1.)	Binary Coded Decimal (BCD): For each digit we
	assign 4 bits in decimal of base to
	1895
	1010 1001 1000
2-)	Unsigned Integer: Without a sign
	of ai on U o mit provide date the
	bits Range
	0 - 255
	16 0 - 65535
QII	store 7 to in 8 bit Memory location.
	-> change 7 into Linary
	- Add 5 o's to make 8 bit
	and the state of t
	Ams: 00000111
100 00	to a in the control of the design of the state of
_0	calculate binary of 258
	2 258
	2 129 0 (100000010)
	2 64 1
4.00	1 32 32 Dones the fire it
	2 16 /0 2 10 20 00 27 10 .
	2 9 00,110 - 4 - 3
	2 4 D
	2 2 0
	1 0

	/
<b>★</b> 27	signed nois
	Represent by
	1.) sign magnitude
	2) i's complement
	2-) a's complement
	3.) BCD
	The desire of the state of the
(·)	left most significant = 0 no is the
	no is -ve
7 6	Store +7 in 8 bit
<i>'</i>	Store +7 in 8 sit
	D. T. J. MAN Sin S ni d - grain
	@ Add four 0 0000111
	(3) if the then 0000011/
	if -ve then 10000111
-M7	
Mr	One's complement -> reverse all bits of the no.
<u>9</u>	Store +7 in 8 bit wing one's complement
	① +7 → III
	② +7 → 00000111
.)_n_=2	3 -7 → 11111000
M-3	a's complement reverse all bit except right most
	Y
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	② -7 → Ø11111001
	•

*	Floating point representation: representation in
)	scientific form
<u>)</u>	- sign
)	- Mantissa IM XB
b	- Exponent
)	1
*	IEEE 754 floating point no representation
0	a) single precision fromat: 32 bit
)	01= 751=3
)	sign Mantissa exponent
A.	31 30 7 0
)	1 bit 23 bit 3 8 bit (1)
)	6) Double precision: 64 bit
5	[ 1 - 2 / 3 - 2   ]
).	1bit 52 bit 11 bit
)	Binary to Delinal Marrial 3
	Represent (1259.125), into 1888 754
<u>.</u>	17333 AAD 1732 15113 O
<u> </u>	$0 1259.125 \rightarrow (1259)_{10} \rightarrow (10011100011)_{2}$
)	$(0.125)_{10} \rightarrow (001)$
9	Legeries made of
D	0.122 * 2 = 0.250 0
<u>,                                      </u>	0.250 * 2 = 0.5
9	0.5 * 2 = 1.0
9	0.0 * 2 = 0.0 0 0 0
<u> </u>	
<u> </u>	(10011100011.001)
9	2
9	② Normalize E-127
9	single precision (1.N)&
9	single precision (1.N) & couble precision (1.N) & couble precision (1.N) &
<u>9</u> 9	
3	

	_/_/
	(10011100011,001)2
- 1	(35/11/0001)2
	1.0011100011001 × to 2
	1 00111000 11001 X H Z
	3 single precision
	-127-3
	(I.N) 2 = 1.0011100011001 x 2
	January Committee Committe
	€-127=10
	E= 137 / 1
	137 = (10001001)
	the the milling is
	[0/0011100011001 /10001001]
<u>Q</u>	Binary to Decimal Mantissa 9
	Exponent 6
	01101000000000011
-	0/110100000 0000011
	sign Maurissa Exponent
	0
	Exponent $(000011)_2 = (3)_{10}$
	Exponent $(000011)_2 = (3)_{10}$
	0110.100000 * 23
	011010000 N Z
	(6.5)

)	_/_/
)	Fixed point representation
	unsigned -
)	Onsigned -
) Ö	Represent fixed point representation of unsigned binary no:
)	0110110 using 4 integer bit
)	3 foactional bit
8	(0110.110)
)	2
)	= 8 (6.75)
)	
2	signed , -> a's complement
)	Sign & magnitude
	safe t' - mitages   Language stall tresums   1
9	Représent (-7.5)10 using 8 bit binary représentation
<b>)</b>	with 4 digit Integer and 4 tractional bit.
	1.11.11.21.2
1	(1) (4.5) <sub>(0</sub> = (111.1)
	(0111.1000) 1/11.11 (1) 3
	3) to 2's complement 1000.1000
	2.00.00
0	Asithmetic fixed point, compute 0.75+ (-0.625)
	using fixed point number
	9 1
Y	0 0.95 = 0000.1100
	© 0.625 = 0000.1010
	3 -0.625 = 1111.0110
	9 Add
	0000.1100
	+11 11.0110
	0000.0010

<u>O</u>	convert into binary 1 sign of
	15 Integer 32 bit
	16 traction
Ca leson	
	11 (9x0) 101011 101000
	15 bit
9	pecimal to fixed point binavy no
(i)	(7.75)
	0
	= (111.110)
Q.	convert into decimal fraction -> 4 bit
10000	
<u></u>	Ollinin
	Ollifilli sue xerrer de la comina del la comina d
	(1.11) = = (2.2)
2	1111 1111 (003/-///0)
	-128+64+32+16+8+4+2+1+0.5+0.25+0.125+0.0625
	2 -0.0625
(224	e i series de la serie de la la la la compania de la
	address trian but and
	1211-0000 = 2-2·s (3
	0101 00000 0 12d 0
	0110.1111 = 328.0 3
	blief the
	. 177.0000
	10.10.10.10