Litter by Colary UNDI-3 var moneyard

Data Repersentation

A Number System: Decimal number System:

It consists of digits o to 9. Its bale or, radix is 10. It is most popular, and widly used number system used in Common Brackise.

Cxa- 5074 7025 125 x 5= 62S +7219 -3098 Muliplication 12 2 93 ... 3 9 2 7 Addition Subtraction

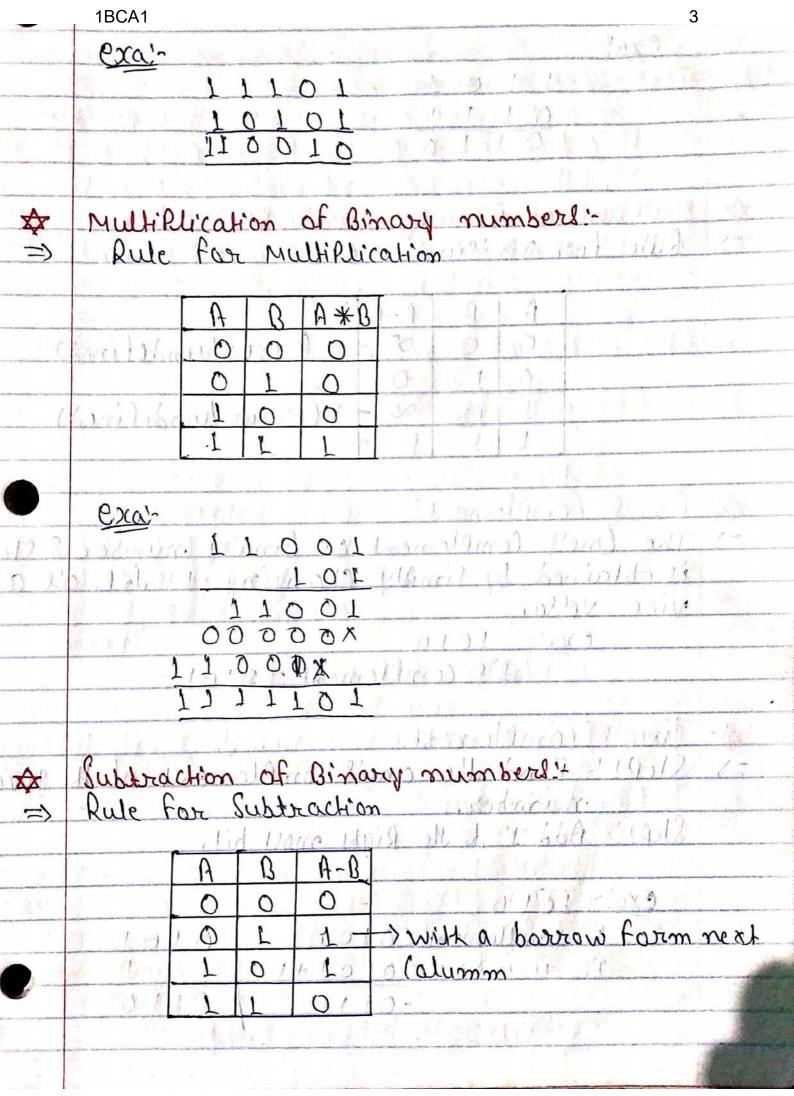
> 5) 1275 (255 Division

1265 in Decimal number System= 1x 103 + 2x 102 + 6x 10 9-9 45 × 10°

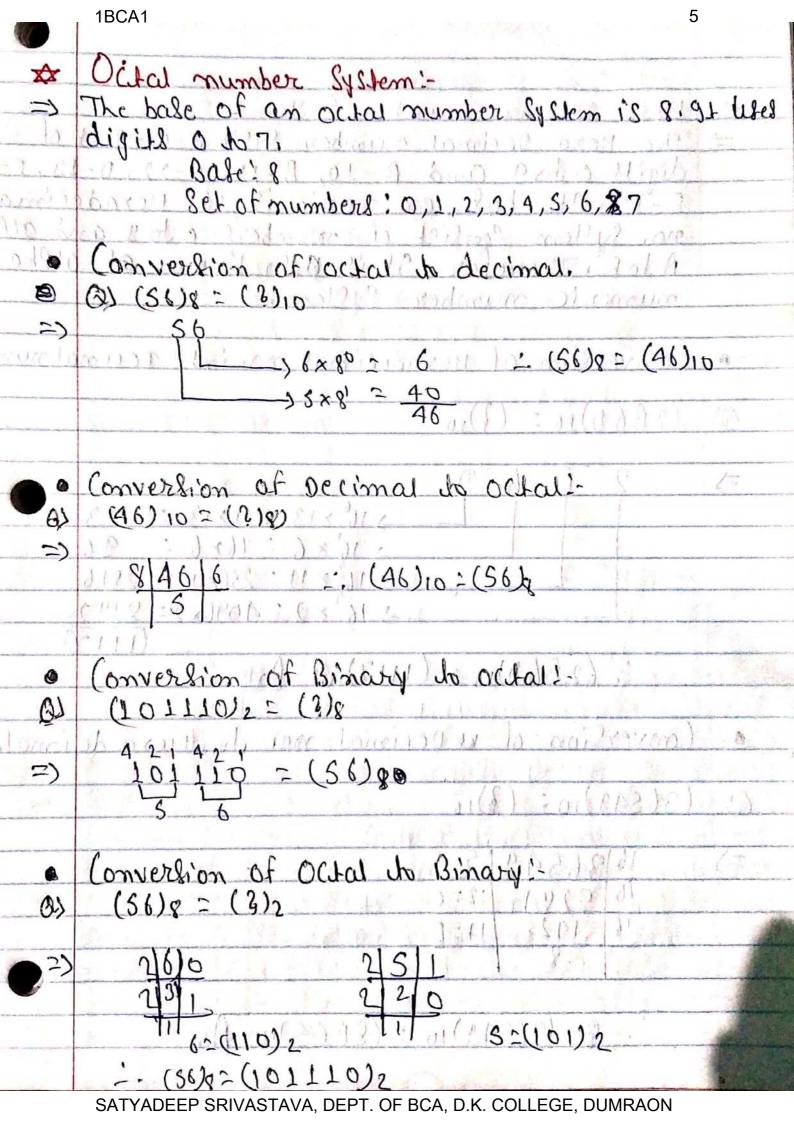
0 1000 + 200+ 60+5

is Binary number System: => Binary number Syllem is the number Syllem of Computers. It is width used in computer operations. Those computers which work on Binary number Systems are known as digital computer.

	A Binary number System consist of only Iwo
	diail namely - 0.1 , Its hale ox radix is ""
	digits namely - 0, 1, Its bale ox radix is 2'. For exa: 40012 -> Binary number.
	2 > bale ox, radix.
The state of the state of	
	(100)2 > Binary number System
1	(9)10 > Decimal number system
der	- 1321 - 122 1 12 11 11 12 12 12 11 1P 101 18
1 1	exain the deposit of the matrix
	10011101 (1000)
	$2^{\circ} \times 1 = 1 \times 1 = 1.$
	2'x0 = 2x0 = 0
	322 x1 = 4x1 = A
	120 x1 = 8 x1 = 8
	2011 2011 1 20 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	$\frac{1}{2500} = 3200 = 0$
	326 x 0 = 64x0 = 0
	$10^{7} \times 1 = 128 \times 1 = 128$
	(137)10
*	Addition of Binary Numbers:
=>	Rule for Addition
CKELL	10×9 +001 -1 3 m 11-18 of ba pod 1 to he 1 × 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	LA B A+B
	00 + 00 1 0 0 0
	0 1 1
	1 0 1/2/1 sodana penditilla.
10	12/2 - late 111 to 12/2 and a war property to
	(avry forward)
	Landing William & Marrier Works and Color of Soll
	The state of the s



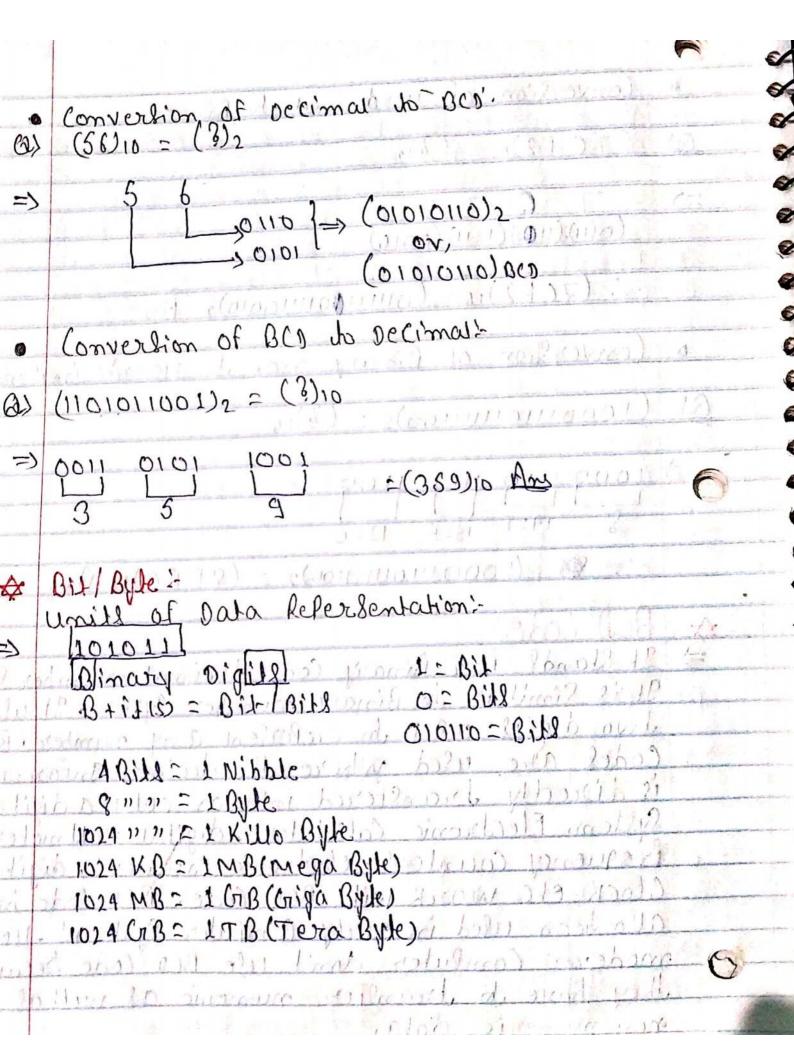
	Cxal- 0 1 1 0 1 0 1 1 0
***	D C C C C C C C C C C C C C C C C C C C
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
=>	One's Complement of Binary number System The One's Complement of Binary number System is obtained by simply changing 1's Into 0's and vice - velsa. exa: 1010 1's complement = 0101
* =)	Two's (omplement: Steps:- Find the one's complement of the fiven number. Steps:- Add it to the Right most bit.
la ve	exa: 1010 2'S 11 11 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1



7	Hexa Decimal number System: The Hexa Decimal number System consist of digits 0 to 9 and A-10, B-11, C-12, D-13, F-19, E-19, System consist of radix is 16. Hexadecimal mo. System consist of numbers 0 to 9 and alphabets A to F. Therefor, It is also known as alphabets number. System.
	Conversion of Hexadecimal no. into Decimal number.
(D)	(2660)16= (3)10
7	2 8 6 9 $\frac{16^{6} \times 13}{2} = \frac{1 \times 13}{2} = \frac{20113}{3}$ $\frac{3.16^{6} \times 13}{2} = \frac{16 \times 6}{16 \times 6} = \frac{96}{3}$ $\frac{3.16^{2} \times 11}{3} = \frac{256 \times 11}{2} = \frac{2816}{3}$ $\frac{3.16^{2} \times 2}{3} = \frac{4096 \times 2}{3} = \frac{819.2}{3}$ $\frac{16^{2} \times 2}{3} = \frac{4096 \times 2}{3} = \frac{819.2}{3}$ $\frac{11.17}{3} = \frac{11.17}{3} = \frac{10.17}{3} = $
a	(36549)10= (3)16
7)	16 92 84 12=C 16 142 14=E 3 (36543) 10 = (8ECS) 10 10 10

Conversion of nexdecimal to Binary. (7 C F2)16 = (8)2 6 (B11 2210) (1) 2110 (011) (110) (1111) (0010) : (7CF2)16= (01111100110010)2 AD Conversion of Binary no. to Hexadecimal no. (100011101111100)2 = (3)16 7 1009 1119 1119 8 1928 15=F 12=C (100011101111100)2 = (8 E F C)10 Am It Stands for Binary Code decimal number & stem. It is Simillar to Binary number System. It wes two digits of st to referent any number. BCD codes are used where the decimal Information is directly transferred into on outof a digital System. Electronic Calculators, digital voltmeters, frequency Counters, electronic counters, digital CLOCK etc work with BCD Code. BCD Code has also been used in early Computer Systems. Howevor modern Computer don't use BCD (odc because they have to transfer numeric as well as

mon-numeric data.



_	
\Leftrightarrow	ASCII Code:
E	Il Stands for American Standard Code for infor-
	mation Interchange (ASCII). It is a 7-bit Code. ASCII
	Codes are extensively used in Small Computers,
	Pheripheral Instruments and Communication devices
	It has replaced many of the special codes that
- Sandanian and	were Brevioully used by the manufacturer micro
-	Computers using 8-bit word length. 7-bits we
	Were Previously used by the manufacturer Micro Computers whing 8-bit word length. 7-bits use to refersent basic code. The 8-bit is used for
	Pariety Check.
-	Information 7-bits
1	
-	Parity 20101.0110
	CHECK
	(To Shentify error)
	This is the Standard no. System used in Computers
	for Communication.
1977	自1日本11月 1日日本11月 1日日 1日日 1日日日 1日日日 1日日日 1日
9	Gill to the property of a stranger of the stra
8	THE REAL PROPERTY OF THE PARTY
	Value Alexander Alexandre de la desta de la companya de la company
	Z RECHEL BOX V Chelonian Chelonian Chelonian Chelonian