NAME:- MOHD MONISH REGISTRATION NO.:-2021CA063

CLASS:- MCA FIRST YEAR SUBJECT:- DCO THEORY

ASSIGNMENT :- 01 MOBILE NO:- 9821446257

Name! Rg 19	MOHD MONTSH 2021 (A · 63) Dea THEORY ASSIgnment Page Page	
Micro	You of wordlength Memory. Pine abok Remarks	
4004	The state of the s	YOY
8085	5 1976 8 bit 64KB 40 3-6MHZ 8-bit molog	opraio.
8086	The state of the s	
80486		
andigm	64 bit cluta bux +PU/3:3mT	
Centium	6461B real , 150 1	Hon
Calmon	it contain charles	L03.3V
Ronti um d	4 2000 305it 6461B 42361PA 1.26HZ Astronto	1D
Itanium	Instruction 7.33 64 bit	ton
17365)	EXE 2000 Quad 32-bit - 3:20/Hz Quad Coxe on simply	cpu
Yes	The second of Manight many recovery	
Xeon Psoluseov	64 bit - 64 bit	-1.
E7-8800	Dear AUCOV	_ ^ -

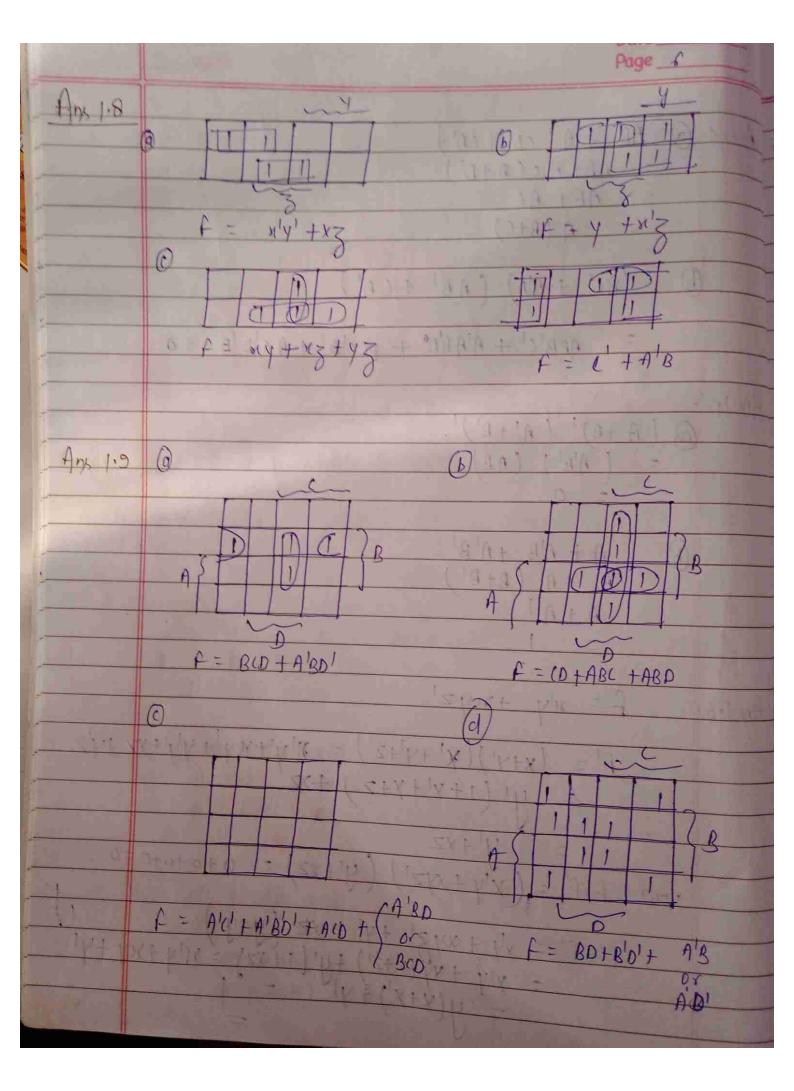
Number System: - The language was use Communication with each other is comprised word and characters, we understand character and word but this type of glata it not suitable for computers' computer only understand the numbers. so when we centered data, the data is converted into alectronic pulse each pulse is identified as cooke and the conde is Converted in to numeric format by ASCII. The number systems used in computers ance. Binary Number System - Base 2 Digit used: 0,1 Octal Number system - Base of Ogit used: 0 to 7 Recimal Number System - Done 10 pigit used: 0 to 9 Hexy Decimal Number System - Base 16 Digit used ! 0 to9 & Lotters year! A Conversion from binary to decimal (101011) 2 = 1x25 + 0x24 + 1x23 + 0x22 + 1x21 + 1x2° Conversion from binury to octul (1101011)2 = (153)8 (10110001) 2 = (B1)16 (onverior from deimul to binary

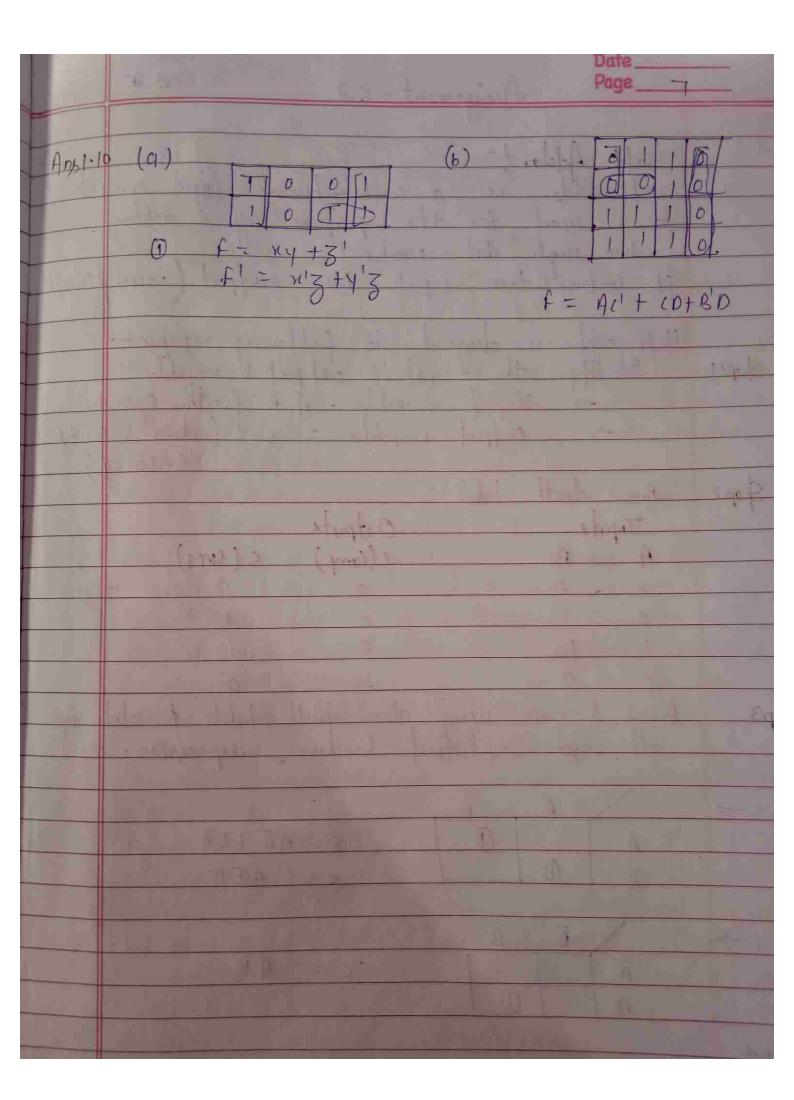
(27) 10 = (11011),

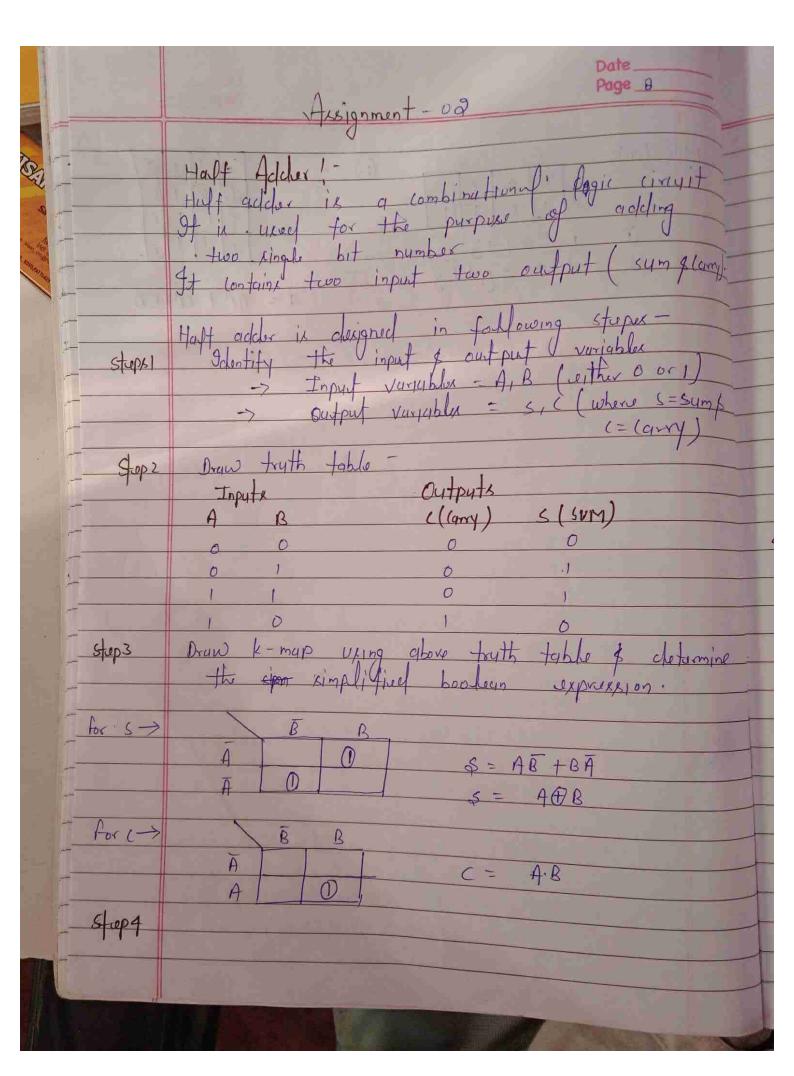
convexion from hexadecimal to binary (2)16 = (DOID) Converses from decimal to hexaderimal (129) 10 - (81) 16 Conversion from hexadecimal to decima (59)16 - (92)10 convesion from octal to binary (946) 8= (10100 110)2

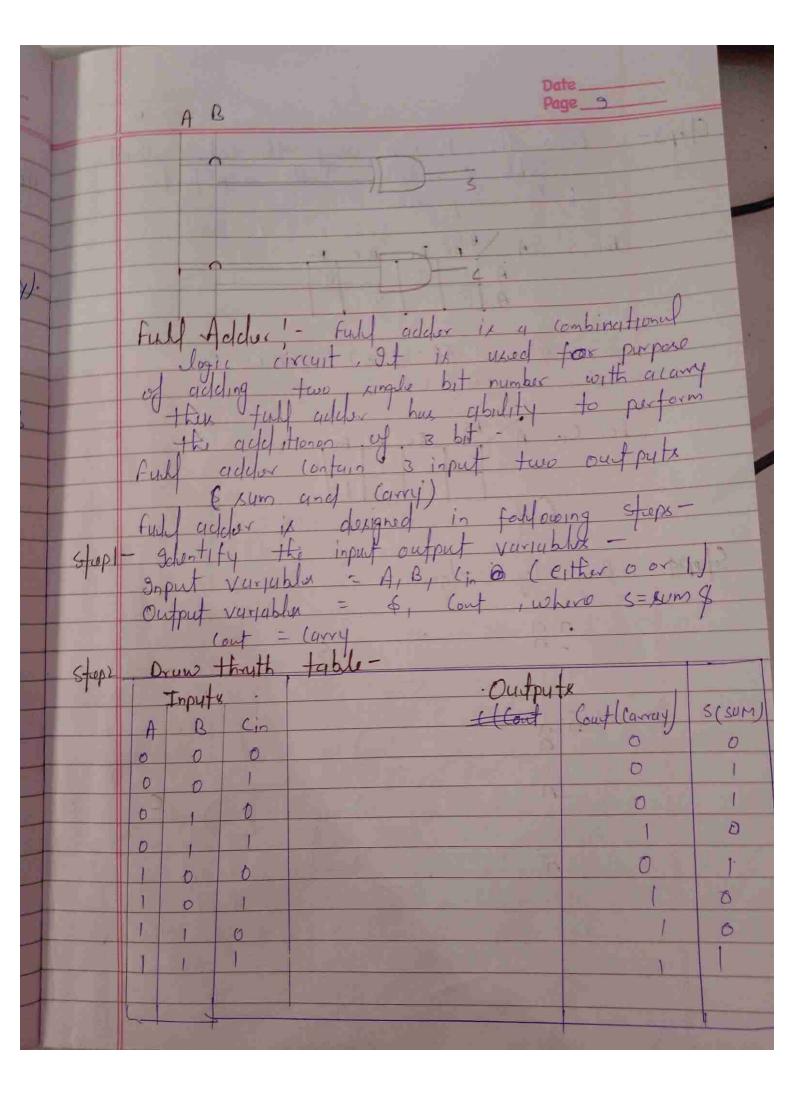
	Page 4
	The state of the s
Ans 1.1	A B C A.B.C (A.B.C) A'B'C' A'+B+C'
	00001111
	001011101
n=	0 10 0 1 101
ļ.	0110 100 1
4	1.000
	1010101
	10001001
	1 0 0 0 0
	Horse use see in above touth table (A.B.C) = A'+B+C'
Ax 1.2	A B C A DB A DB DC
+	
	0 1 0 1
	0 1 1 0
	1061
	10110
	1 1 0 0
Ans 1.3	$\frac{\partial}{\partial A} + AB = A(1+B) = A$
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	9 A'RC + AC - AC
	C(AB+A)
	(A+A')(A+R)
	A'B + ABC' + ABC (A+B)C
	= A'B + AB (C+C')
	- AB + AB
1000	B(A'+A)=B

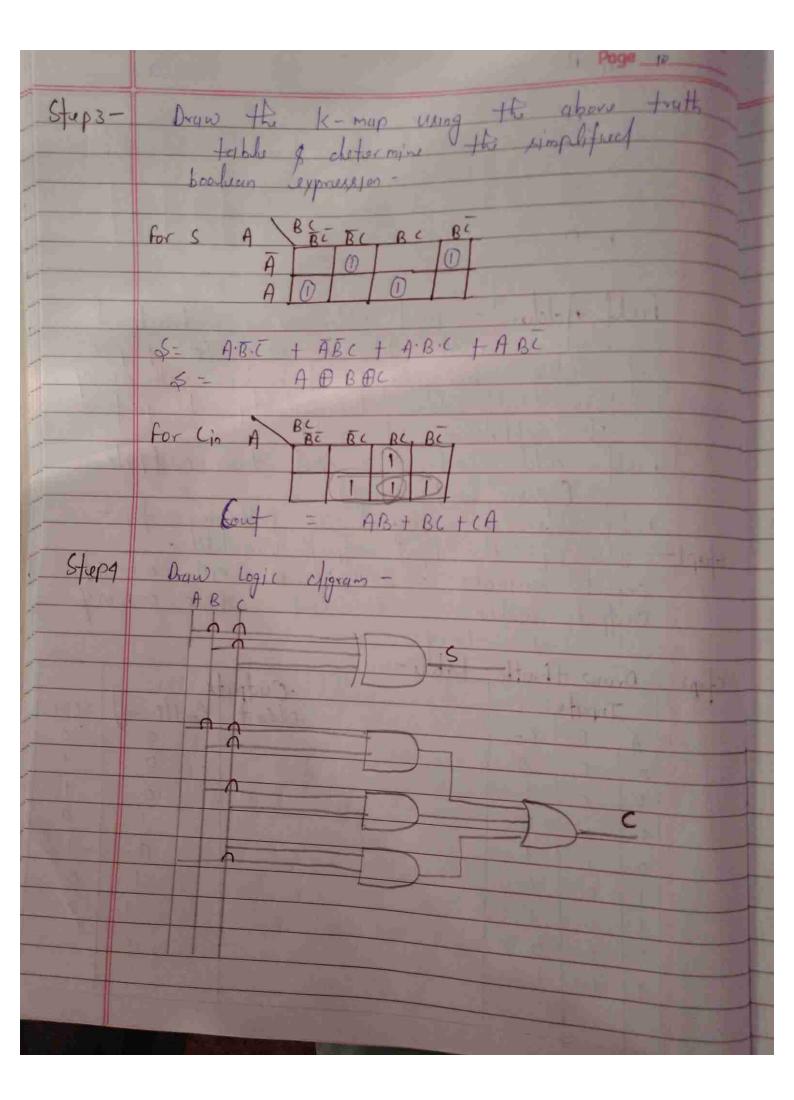
Aps/4 @ AB + A ((D + (D') = AB+Ac(O+D') AB+ AC A (B+() (BC' + A'D) (AB' + (O') ABB'C' + A'AB'D' + BCC'D' + AC'D'D = 0 Ans 1.57 (A+B) (A+B) (A'B') (AB) A + A'B + A'B' A + A! (B+B') Ans 1.6. f = n'y +nyz' (x+y')(x'+y'+z') = x'y'+xy'+y'y'+xz+y'z = ' 4' (1+x'+x+z) +xz FIF'= (x'y+xyz') (y'+xz) = 0+0+0+0=0 = x'y + xyz' + y' + xz (y+y') = x'y + xy(z+z') + y'(1+xz) = x'y + xy + y' = y(x+x') + y' = 1

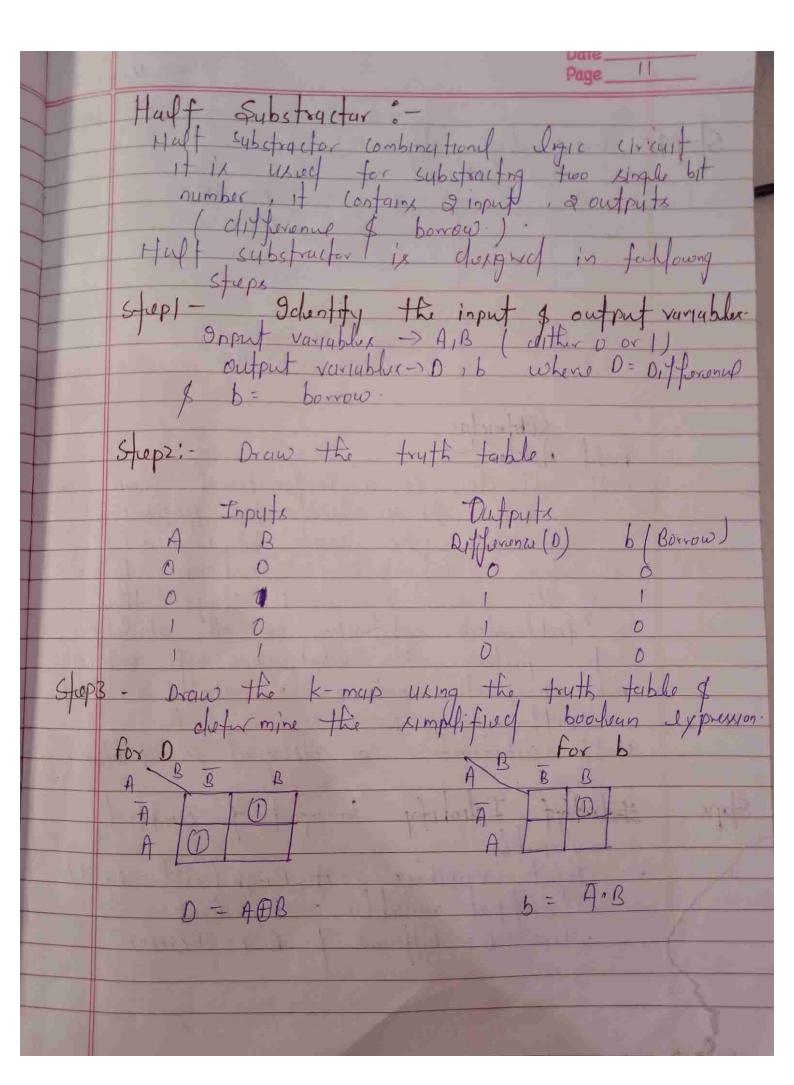




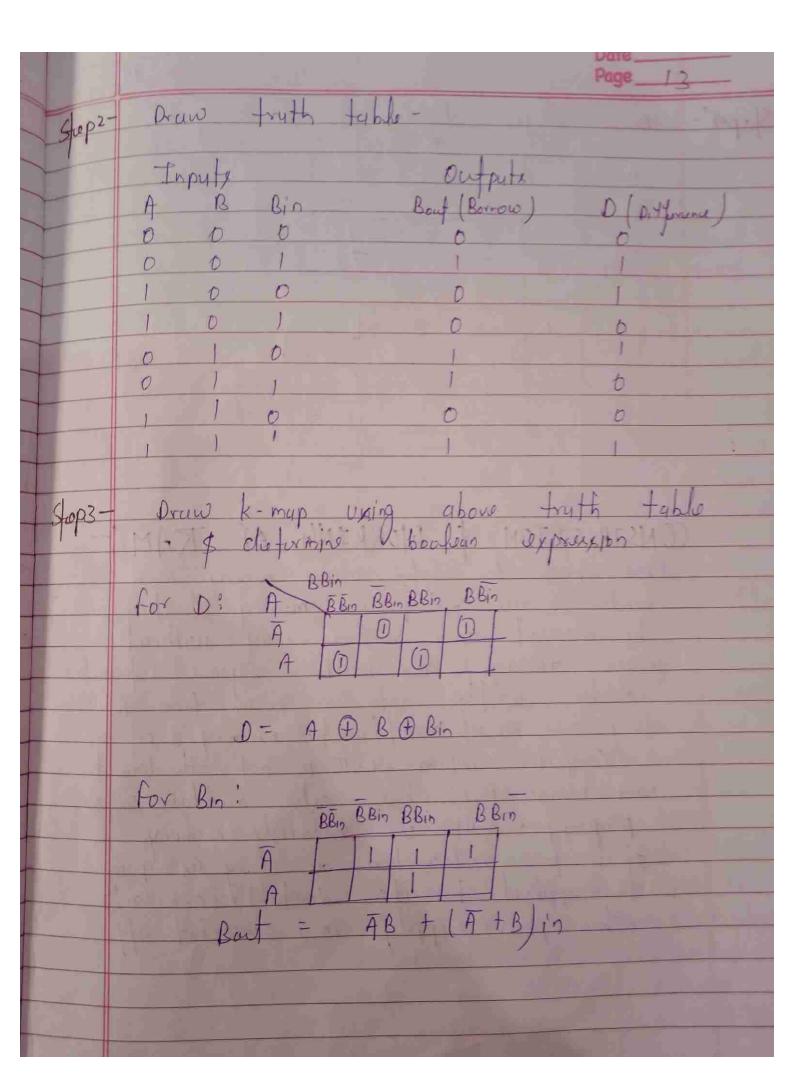


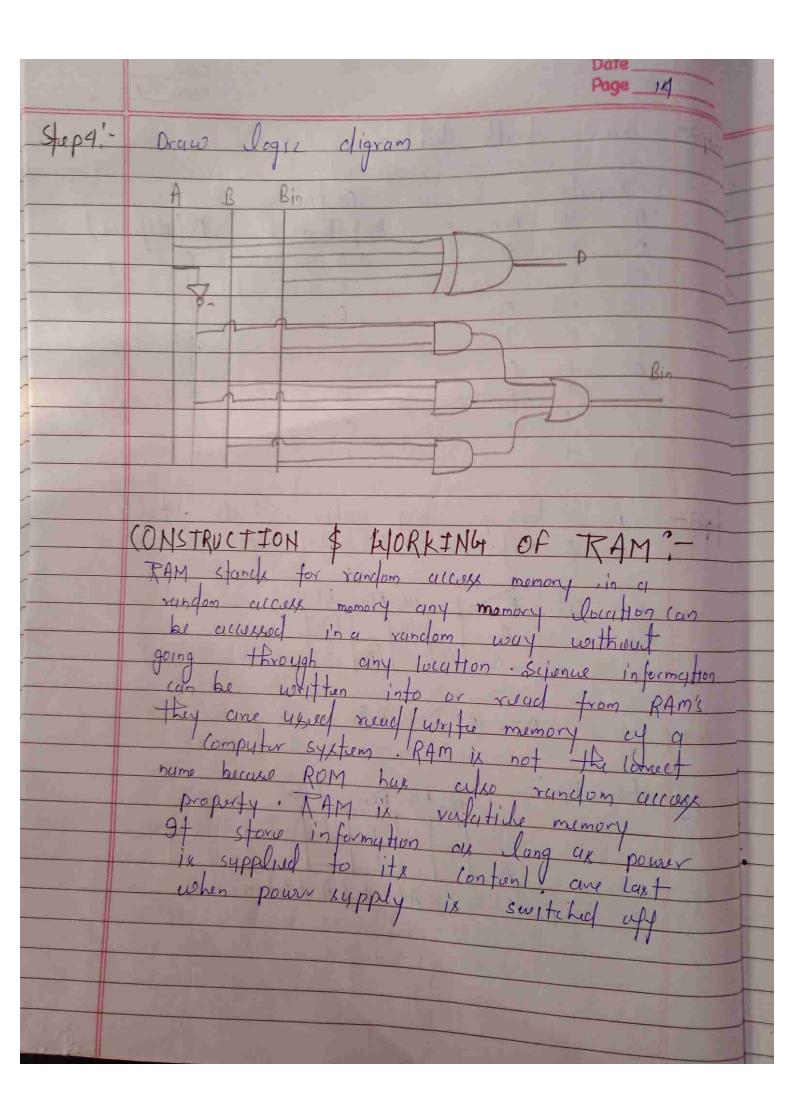


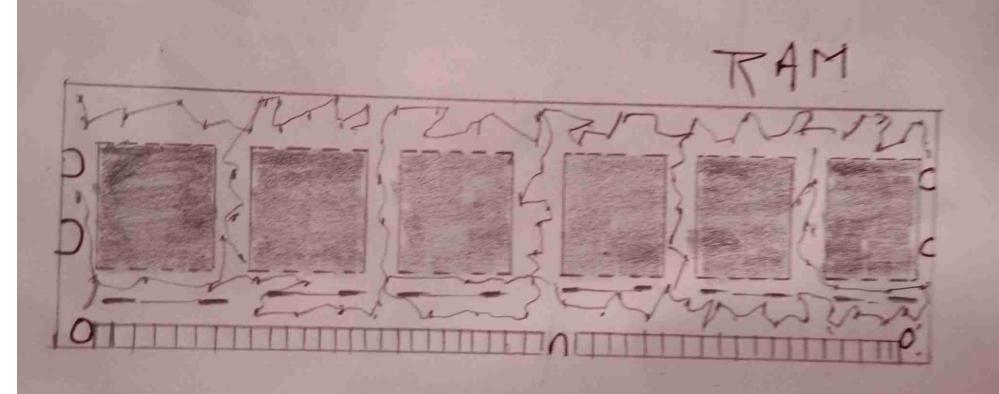




Draw logic digram-D = ABB b = A-B var fing substractor substructor contains 3 input
professions of Borrow)
substructor (an clesigned) out variables : A . Bi.

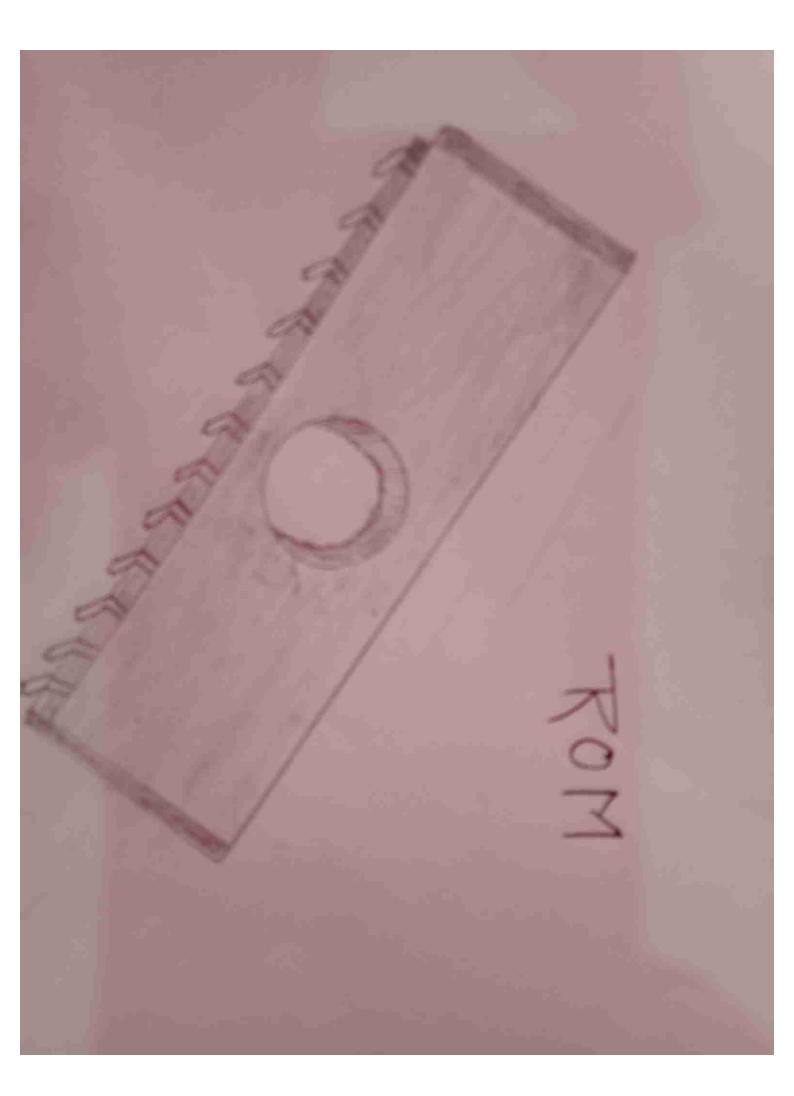






Page 15 the kind of board and connector used for RAM in desktop computer has evolved over the pust few years the first different computer many facturers charaloped memory broads that would only work north their specific system. then come STMM Stande for single in fine module. This memory board used d 30 pin connectors and was about 3.5 × 0.75 inches in size (about 9x2cm) In most computer you had to install SIMM in paint of again capacity and speed This is I because the weight of bus is more than a ringula stIMM. CONSTRUCTION & WORKING OF ROM:-A ROM ix a non- Valotile memory Stoned the information permanently It contents are not lost when pourer supply is switched of f. ROM is used to stone parmunent programs. As the name suggests Ity earturnts can be nead only can not be write on it the data that is required to be stoned inside Rom ix weither during many factoring phase it stone such program of that are issential.

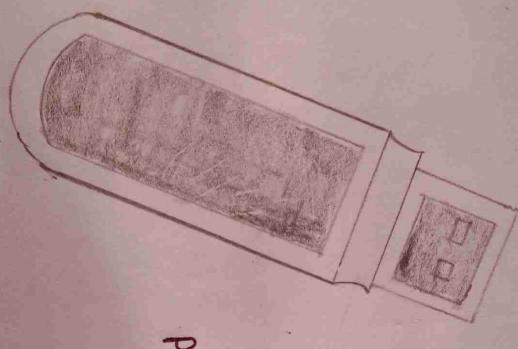
for booting process of the computer.



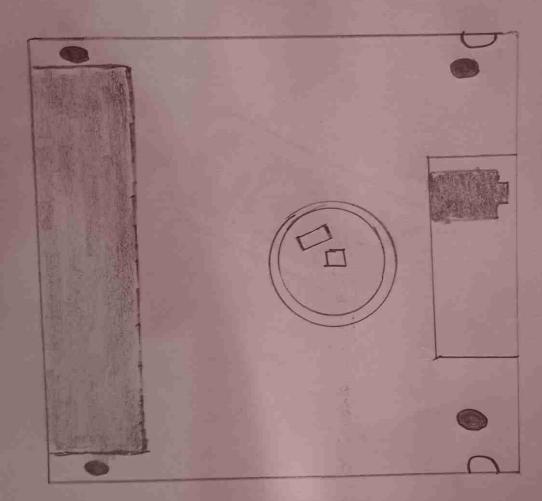
ROM works like an array. to turn off. It has a diode to connect the line if eine not connected toutall. to one storage whenest in the memory chip! the gildness input to chip is employed to pickout a specific memory Josephon (corresponding reach from the memory the correspond to the contents of the galetied when the memory the galetied Have Disk Construction & Morking! Hurd dipk and an-line storage drive musk storage of information permanentaly
they store program, data operating system compilar i application etc. Hurd disk are rigid plutfors composed of a substract - the platter byse metorial - must be non-magnetic and capable of being muchine to a smooth finish. Let is made lither of aduminum alloy or a mixture of glass and caramic to allow data storage both side of

Hard Disk

each patter are coafeed with a mignetic medium - formerely magnetic oxide but now calforext exclusively, a layer of metal called a thin - film medium. the stone date in magnetic patterns with each patter capable of strong a biblion or so bits per squine I inch (bpsi) of platfer surface. } Construction & working of Rendrive! A per drive it a portable Universal serial Bus (USB) flush memory device for storing and transferring data from a computer to long as the clark top or laptop has a USB part , and the pen drive is compatible with operating system it should be easy. the data from the hard drive to the cheville and the another computer . Rendrive usually consist of a PCB (Printed)
circuit Board with a USB connector power
circuitry & a no of integrated circuits (ICS)
one of the ICS in the PCB prod proudes an Interface b/w memory and USB connector the next IC is a MAND flash memory where all the finds are stoned controller chip is considered to the bryin of pendrive of pendrive consists of a flash memory integrated with a USB interface.



PENDRIVE



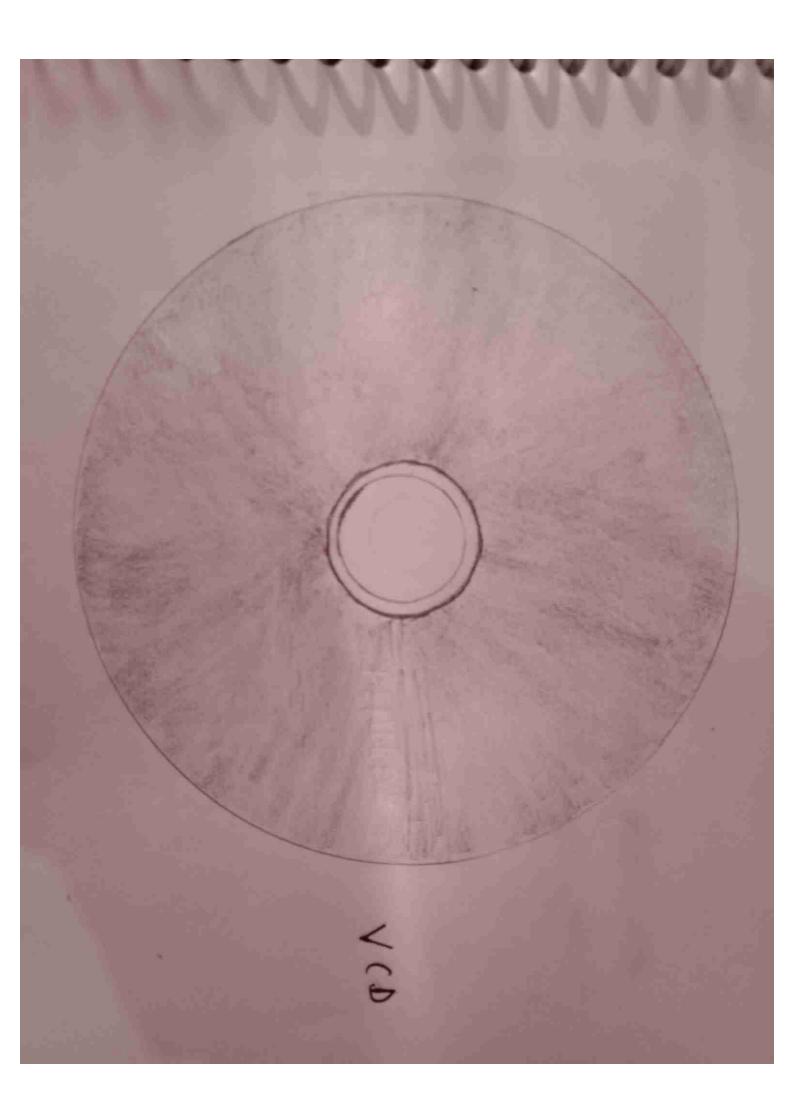
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FLOPPY DISK

Construction of wooking of DVD the DVD ix digital optical disc dutes storage tormet inventuel & developed in 1995 & developed in 14th 1996 the me didn can stone any kind of digitary data and wax widely and for software and other computure, files as well de programs witched using DVD players ovos offine higher storage of capacity compact disc which having the dimensions previousled produces productuel using molding muchings the physicifly stamp data onto the DVD such discione a from of because duto can only be read withen jour exused Blank recordable DVD GIBLE (DVD-R & DVD+R) Can recorded once using a DVD & ROM! DVDs are used in DVD- victed consumer digital video formut & in DVD- aydio confirmer digit andro ferment as well as for DVD disce wither in a spend A VIHD format to hald high chefultion metrial.

Digital wreatiste disc (DVD)

construction & working of veo! Video (D(V(O) is a home video format I first format for distributing films format was widely adopted in southwest Asia central Asia and middle tast supersiding the VHS & Betamux syxtem in the region until ovo- victo finally become afforcluble in the first' decade The termat is a standard digital duta formation for storing victio on a compact disc. VIDE are playable in deducted vio players personal computers and some victed game contalex However and they playable in most Blue-ray Disc players viliche audio with DVD of video games consoly such ay the sony Play Stertion & x box du to
uk of support backward somptibulity
or the order MPE bi-1 format or inability to nevel MPELAT in dat
fily alongside mpelat in stendart
MPELAT in stendart
MPELAT , AN & matropky tiles



Construction & working of (D) A compact Diple (CD) is a disciplishy simply looking device considering the technology required to make it cos

consist of there cayers of majorials

then layer of alyminium coating over the

player bond to

player bon ve axcylic coating over Some manyfarturers user and 9 si gald layors instead of alyminjum in the many furture of akeir (D) (D) it in optical disk Usual + eligitary duty of Roms & cowidly used technologies in inclustry : (D drive employ a newint Tolonm futer diode the fores is directed onto the dis an optorelectronic tracking module in then check weether than been how been refulected or scattered. co is made, co duta are stored as a series of tiny indentations know as pits.



Comact die ((D)

Page 22 Mumory Hjurarachy :-In Computer architecture hierarchy separative computer sto Into a hierarchy buxsed on re time since response time complexity capquity are related the level may also be distinguished by clisting shelling performance & Magnetic disks