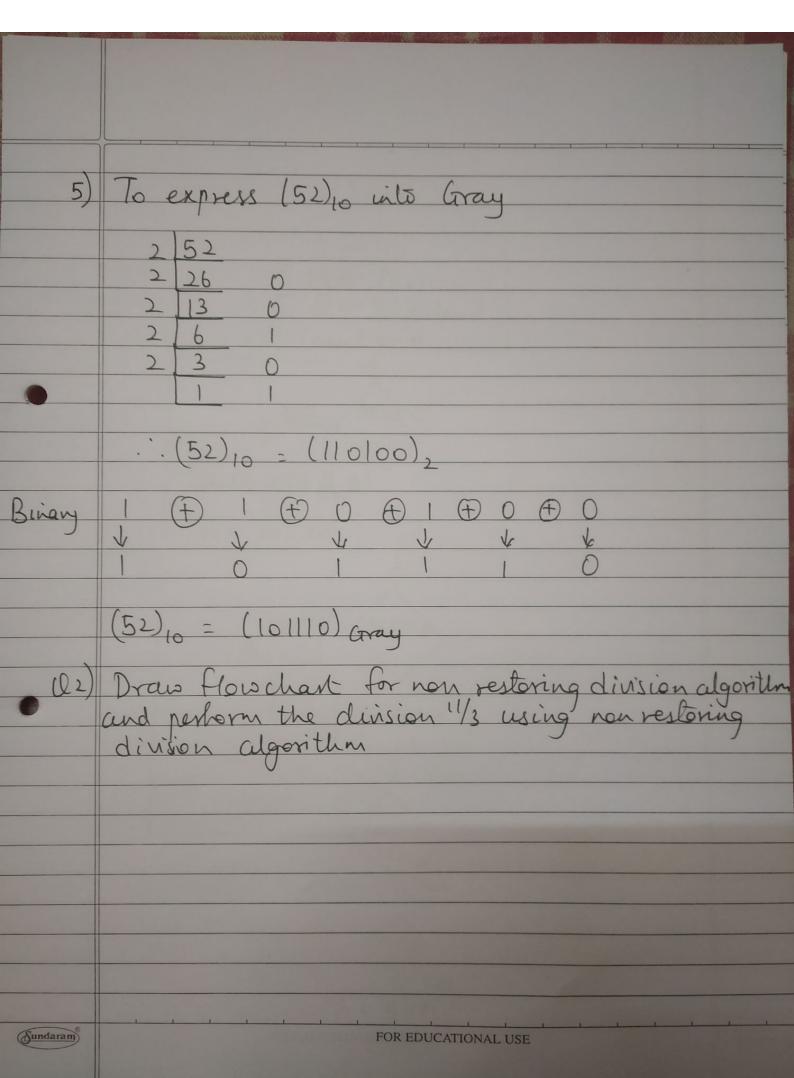
	Assignment 1
QJ	Perhorn the following
1	Convert (340),0 to excess 3 code
	(340)10 = (0011010000000)BCD = (0110 0111 0011)
2)	Convert hexadecimal to decimal DADA
	A=10
	D = 13
	lox16 + 13x16 + lox16 + 13x163
	10 + 208 + 2560 + 53248
	z (56026) _{to}
0 3)	Draw OR gate using NAND gates
	A - [] Y = A + B
	Do-
	B — [] o —
4)	Hexaderimal to Binary 3A9D. AOC
	3 A 9 D · A O C
	0011 6010 1001 1101 - 1010 0000 1100
Sundaram	(100,11 1010 100,1101; 1010,000,01100) FOR EDUCATIONAL USE



Start) Me Divisor O = Dividend Count = n Shift left A, O A = A + M Count = Count-1 EN BUCATIONAL USE Sundaram

	11/3			
	NM	A	Q	Action
	4 00011	00000	011	Start left Shift AQ
		11110	011-	A= A-M
	3	11110	0110	O[c]=0 left shift AQ
•		11100	110_	A=A+M
)		[100	Q [0] = O
		1111	100-	1eft Shift AD A-A+M
	1	00000	100-	(0)21
		00101	001_	left shift AD
		000010	001	A = A - M $Q [O] = 1$
	0	0000	0011	
	Quotient	= 3 (0)		
0	Remainder	= 2(A)		
72	JaiH. Qui	table Stee	15 Conject	decimal number
(3)	29887562	5 to JE	EE4-but.	Double predistion
	floating	noint r	epresental	19 h
<i>→</i>	Fixet C	invent th	ré intéger 2, 623	to binary
	2 19943	2	311	29
	2 9971	7	2 155	2 4
	2 4985	-	1 38	212
Sundaram	2 1246		POR EDUCATIONAL	USE

(39887)10 = (1001 1011 1100 1111)2 Convert the decimal part to binary 0.5625(10) = 0.1001(2) Positive number before normalization 39557.5625(10) - 1001 (011 1100 1111.100/8) Normalizing 1001 1011 1100 1111 · 1001(2) X2= 1.0011 0111 1001 (111 001 (1) X 215 Adjusting the exponent Exponent adjusted: 15+ Converting the exponent from decimal 519 259 64

FOR EDUCATIONAL USE

(Sundaram)

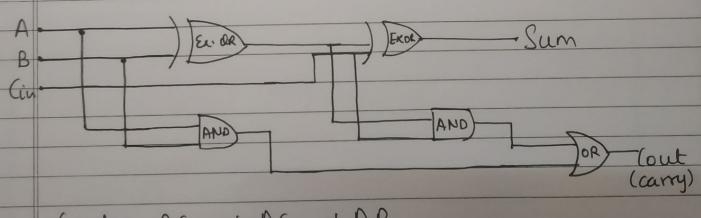
1038(10) = 100 0000 1110(2)

Removing leftmost bit and decimal Adjusting length by adding zeroes to right

0000 0000 0000 0000 0000 0000 0000

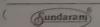
0000 0000 0000 0000 0000 0000 0000

Oy) Design a full adder using harf adder and additional gates



Cout = BCin + ACin + AB

Sum = A D B D (i'm FOR EDUCATIONAL USE



	Touth	Table		
_	A Bruts	0	utputs Carry	
	A B'	Lin Sum	(arry	
	0 0	0 0	0	
	0 1		0	
			0	
		\cap 1		
	0	0		
		0 0		
		1		
0				
Sundaram		FOR EDUCATIONAL U	SE	1
Quindaram				