Arcshita 21115024

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	DATE / / PAGE					
	Assignment -1 EEN 103					
	EEN 103					
1	Octal  16 (10)  16 (10)  16 (10)  16 (10)					
	16 (10)	20	3 2 3 2 8	16	10(16)	
	17	21	0	17	11	1 (a) + 1/4" =
	18	22		18	12	2008
	19	23		19	13	
	20	24	- 5	20	. 14	Ola A A D
	21	25	100	21	15	) and
	22	26		22	16	3 = 2809
	23	27	10	23	17	
	24	30	18	24	18	
	25	31	(4)	25	19	
	26	32		26	1A	
	27	33		27	1 B	
	28	34		28	1.0	
	29	35		29	10	
	30	36	= 11	30	1E	(0) N= B2FA
/	31	37	0	31	1F	He ned
	32	40	11.	32	20	End Albert
•			du	7		3134 1 2 M
·· fo	r lease 1	3 a list	of	numbers	from 8 7	to 28.
(10)	(13)		0	(10)	(13)	(10) (13)
8	8	eloulu		17	14	26 20
9	9		4000	18	15	27 21
10	10D	4		19.	16	28 22
11	E	101 100		20	14	101 N 15
12	F			21	1B	· And in they ago
13	10			22	16	
14	11			23	10	
15	12			24	1E	(4, 5) = 14 - 31 /
16	13			2,5	1F	

(2) (a) 
$$14/2 = 5$$
 (b)  $\frac{54}{4} = 13$  Let base = a Let base = a

$$\frac{1(a) + 4(a)^{\circ}}{2(a)^{\circ}} = 5(a)^{\circ} \qquad \frac{5(a) + 4(a)^{\circ}}{4(a)^{\circ}} = 1(a) + 3(a)^{\circ}$$

$$\frac{2(a)^{\circ}}{5a + 4} = \frac{4a}{4a} + \frac{12}{4a}$$

$$a + 4 = 10$$
  $a = 8$   
 $a = 6$   $\therefore Base = 8$   
 $\therefore Base = 6$ 

(c) 
$$24 + 17 = 40$$
  
Let base = a  
 $(2a+4) + (a+7) = 4a$   
 $a = 11$ 

(a) 
$$N = B2FA$$

base = 16

(B)  $N = B2FA$ 
 $A = 10$ 

(Radix Complement)

 $A = 10$ 
 $B = 11$ 
 $A = 10$ 
 $A$ 

$$n = 4$$
  $s = 16$   $f = 15$ 

Binary: |0|100|0 ||111 |0|0

Comple. =  $x^n - N$ 

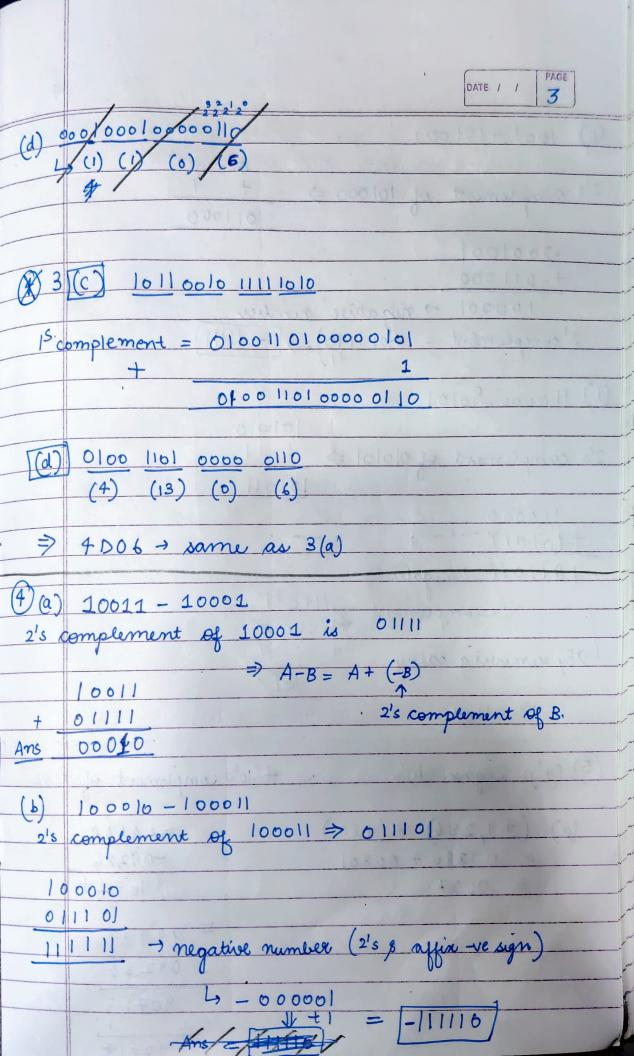
$$= \frac{(c) |0|1/6|1|1|0|0}{(EFFG)_{16}}$$

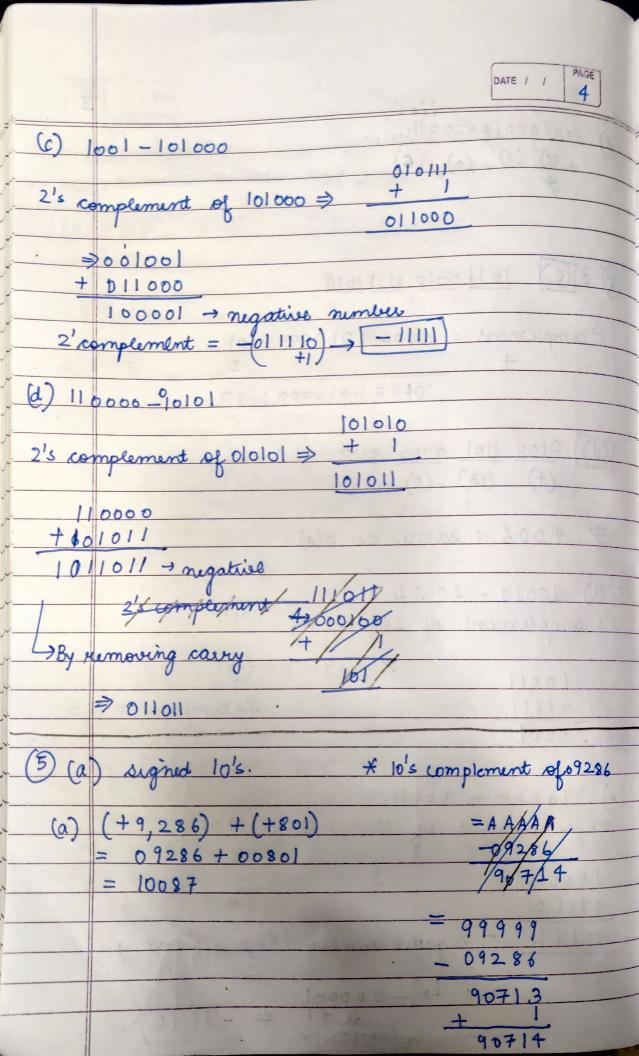
$$= \frac{(c) |0|1/6|1|1|0|0}{|s'complement} = 0/000|0000|0|$$

$$+ 1$$

$$(15-2) = 13 (D)$$
 Place  
 $15-15 = 0$ 

3





DATE / / (b) (+09286) + (-00801) 1ds complement 99999 09286 0080 + 99199 99198 108485 99199 The final carry is 1 > remove -1.4 Ans = 8485.(c) -09286+00801 1015 complement 90714 90714 00801 91515 as 09286 is large wert 801, and is negative. 10's complement 99999 91515 2484 at 1 8485 -09286 + 00801 = -8485. (d) (-09286) + (-00801) 99199 90714 99999 90714 1 89913 99199 10086 89913 -> 189913 removing overy (-10087) Ans

(6) To construct a few short for the process of filing a bath tub with water which

turn on hot and cold taps

is the water too hot or cold

Yes Adjust the hot scold taps

Turn of took tops

Adjust the hot scold taps

Yes

turn of took

Lond

Lon

(8) Algorithm to write factorial

Step 2: Input I Step 8: Declare/initiate factorial= 1 and i= 121

Step 4: check if i & < nv Step 5: Yes, factorial = factorial \* i, No: Stop.

Sup 6: Repeat

Step 7: Display factorial End.

Start

Step 1:

