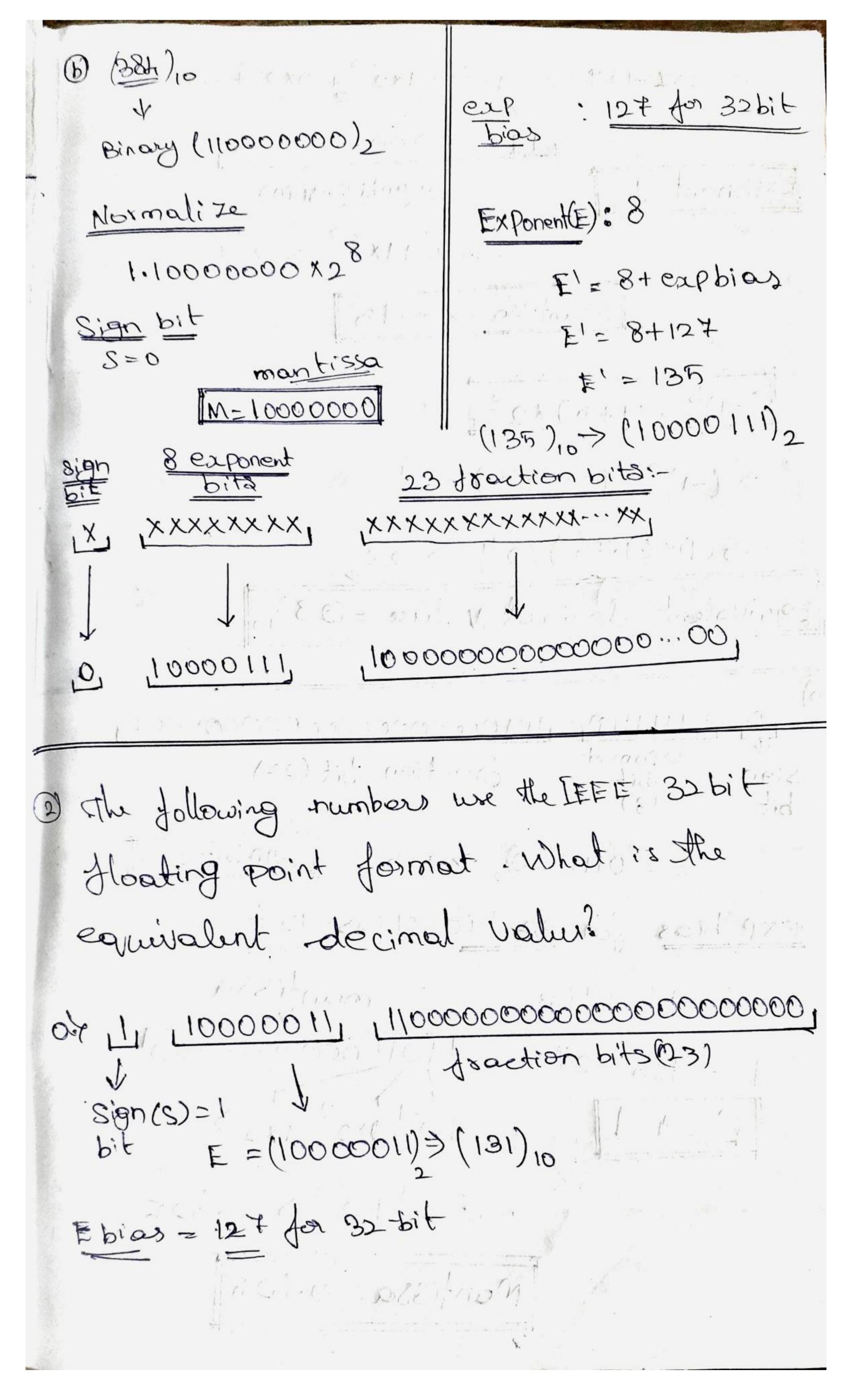
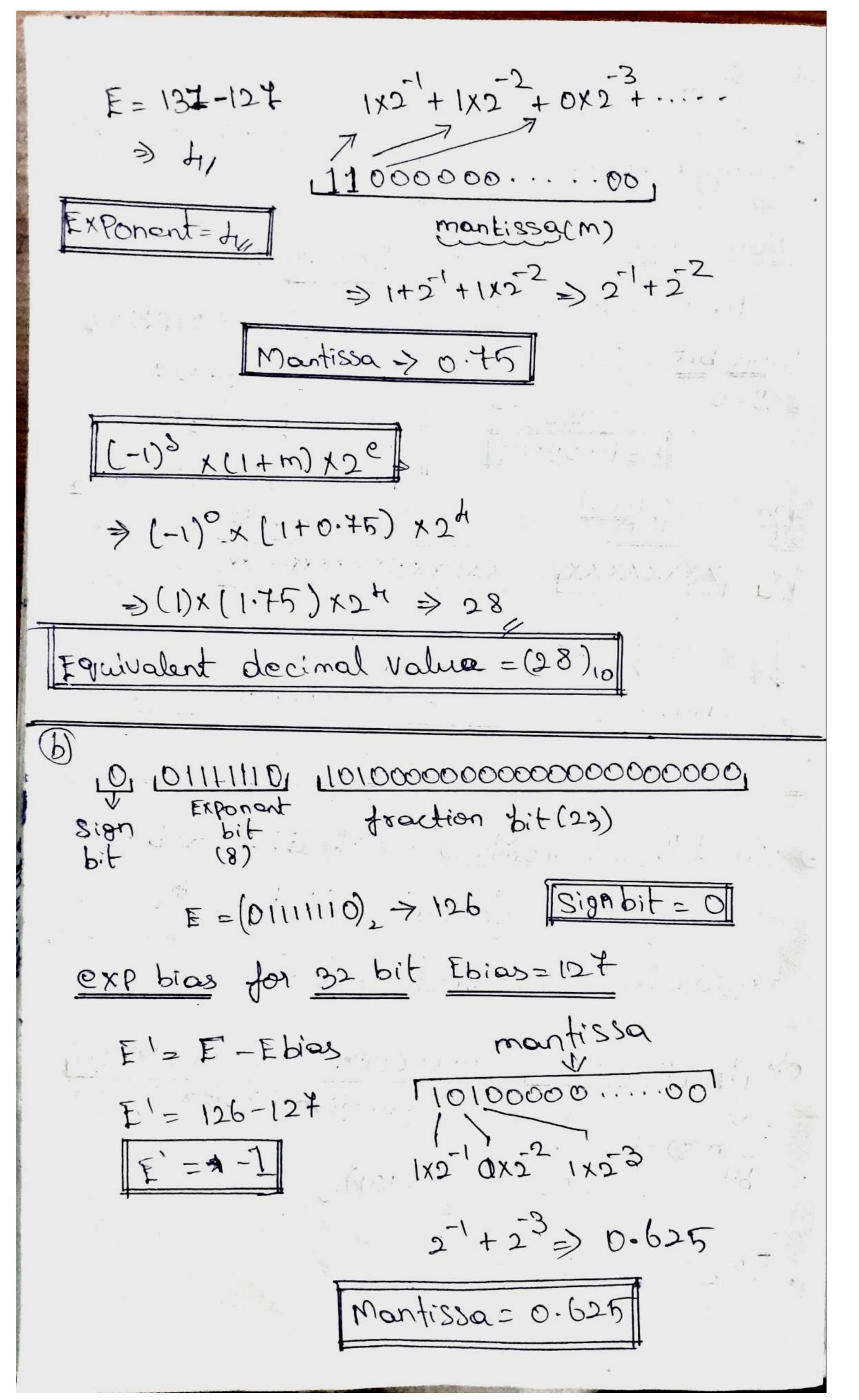
	PREGNO: 19BCS0012
	NAME: G.Nithish
Computer drehieture	
Digital dosing Express the following of a 32-bit floating Point for	gnment-2 number in IEEE
9 -1.5	decind Binary 1 01 0.5 1.1 [exp bias = 127]
Sign $127+0$ 1000 Binary (1111111) Lith 123 F	xxxx raction bits 000000000
	n bets (23)





Scanned by TapScanner

(-1) x (1+m) x 2e) > equivalent dos mula (decimal) >) (-1) x (1+0.625) x 2 > 0.8125,

: The equivalent decimal value for the given binary 32 bit format >0.8125

3) show step by step process using sing magnitude multiplication algorithm and Both multiplication algorithm don'the following numbers:

a's $\frac{7+3}{10}$ multiplicand $\frac{10}{10} = \frac{10}{10} > \frac{10}{10} > \frac{10}{10} = \frac{10}{10}$

BE Commen 0000 1100 Qn=1; FA + A+B 480111 0111 Shr EAQ 0 SCESC-1 1001 3 0011 0 Qn=1; EA C A+B 0 1010 Shr EAQ 0100 SCESC-1 0101 0 Shr EAQ an=0 1010 0010 0101 0 Qn20 Shr BAQ 0 0001 +21==010101

Booth multiplication algorithm

Multiplicand (BA)=(+7) > (0 \$11)2

Multiplier(QR)=(+3), > (0011)2

BA+1 > 1001

Comment AC OR Date See

Comment	AC	QB	·Qn+1	sc
QR=1 and Qn+1=0	0000	0011	0	4
ACK ACKBAHI	1001			
AShriac & QR)	1100	1001	221	3
SCESCH				
QR=1 & Qn+1=1	1110	0100	1	2
Ashr (Achar)	+80	· Stall Lin	TO THE PARTY OF	300
Sce Sc-1	010			
QR=0 & Qn+1=1.	0010	1010	02	1
AC CABR	2	· Callery	517 To + 6,	'
Ashr (ACR QR)			12131	
SC< 86=1				-
Ashr(AelaR)	0001	0101	0	1
QR=0 Qn+1=0		1 -		1
				, ,

0001010101 >> +21/2

1/16 1xh 1x1 using Booth multiplication

16+4+1>21/2 algorithm:

we got yinial

result as +21/2

3(P) -7+3 toil Booth multiplication Algorith 0101 -(7)=0111 1 1001 QR = 3 = 0011 121000 150110 BR = -7 = 1001 +1 1001 1011 BR+1= 0111 Comment Qn-1 'QR AC 0000 0011 QR=1 Qn-120 Acc-BR Ashir 0011 1100 2R=1 Qn-1=1 0001 Ashr 1001 on Ignil occi. 30-131, 121,00-QR=0 Qn-1=1 1.010 101 0110 SCE &-1 AC QRained (not entre) / distinction 1110 |011 > 1'S > 00010100 > -21 2'S > 0001010116 4 1 >> 16+4+1=)21 08010100 South to in the services

multiplicant (B) 1011)2 Sign magnitude The sign bit of (B) and (Q) are store in Bs and Qs, |Bs=1| Qs=0 |Bs@Qs=1 multiplier (Q) = (3),0=> 6011) Corement Q 1100 0 0000 ON EU) E HB 0111 EAC A+B 0111 BLYEAQ 1001 SCE SC-1 1100 0 48 0001 11 an=1; EAC ATB ShrEAQ 0109 0101 SCE SCI (010 0000 ShrEAQ 000101 an=0 ShrEAQ BS (Q S= 1 100 -11, sing bit = 1, 10010101 => -(21) Using sing magnifule the we sobtonis

- (21)/

(F)	***					
Address	Value	Instauction	Addressing	VälueinRo		
H-R-	100	Load 10, #200	Immediate	200		
Ro	200	Locad 80, 200	Direct	500		
R.	300	toad 50, (200)	Indirect	Too		
100	. 2:00	Load 80, 71	Register	200		
104	300			200		
801	200	food ro, [ri]	Register	600		
300	500	Load to -100[r]	Based	500		
500	700	Load ro, 200[PC]	Relative	600		
B write a short note on different types of						
memory?						
Memory:						
12 Complete programs and data sets are						
held in memory external to the processes.						
4 two fundamental types:-						
Moin memory:						
in main memory is sometimes called						
Volatile because it looses its information						
when power is nemoved.						

- A becondary memory is usually monvotatile because it retains its information when power is removed.
- A Main memory is sometimes called main

Mair memory sometimes called RAM.

(RAM stands for Random Access Memory.

"Random" means means that the memory

calls can be accessed in any order.

Secondary Memory;

so becondary memory is whom programs and data we kept on a long-term basis. Common secondary storage devices are the hord disk and optical disks.

Les the hard disk has enormous storage Capacity compared to main memory. Is the hard disk is usually contained inside the case of a Computer. Is the hard disk is used for long-term storage of programs and data.