ARYAMAN MISNEA 19BCE 1027

1.
$$2.85 \times 10^{3} = [0.2850] 2.85 \times 10^{3} = 2850$$

 $9.84_{10} \times 10^{4} = 98.4 \times 10^{3} = 98400$

Shifting decimal places to
$$\Rightarrow$$
 $(98.4 \times 10^3) + (2.85 \times 10^3)$
match exponents

we have assumed columbian for 3 significant digits, we round the sum to 1.01 × 105

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N	M	P	Ø	Action
4	00011	00000	1001	Sign bit of A=
	00011	00001	001-	Left Shift
		11100	***************************************	1 A= A-M
		11110		Sign bit is]
		11110	0010	O.E.= 0
3	00011	11110	0010	Start Sign bit of A=1 Left shift
		11111	0100	A= A+M Sign 5it of A= 1 Q[0] = 0
	The state of the s	allill ,	0100	
2	00011	THE THE	oro ording	Start
		11110	100-	Sign bit of A =1
		10001		A=A+M Sign bit of A=0 QCoJ=1
1 7	00011	0000]	1001	Start
all manual and a second a second and a second a second and a second a second and a second and a second and a		00011	001-	Sign 517 = 0
		11100		Lest shift A=A-M
	_	0000	0011	Sign bit of A=0 Q[0]=1
	Ovotient = 00 Remainder = 0	11 = 3,=> -3= 0000 = 010 =	1100+000 = A	1=1101=0

0.3. Move Ry, D:-

- 1) Fetch Process: -
- i) The program counter holds the address of the instruction, ii) The address is transferred to the MAR a (Memory Address Register) and the fer Program counter is incremented to
- point to the next instruction.
- iii) The Est sends a read signed to the memory. The instruction is located using the value in the MAR and the content is loaded into the MDR (memory Data Register).
- iv) The instruction is transferred to the in IR (instruction register) for decoding.
- 2) Decode and Execute Process:
- i) The instruction in IR is decoded and a signal to berton a move operation is sent to the CU (control Unit).
- ii) The content in Register RY is transferred to the MDR and the address location D is transferred to the MAR.
- The CU sends a write signal to the memory. The content in more is transferred to the memory to the address location pointed to by the MAR.