\* IEEE - 754 Hoating point Representation 1-3 Double Precision Single Precision SEM 6+bit SEM 1 1 1 32 bit 8 23 50n E M 1 11 52 SEM Bias > 1023 Bias 2127 if E=all O's or I's -> Special Number Number M +0 0----0 0 --- 0 -0 +00 0---0 -00 0---0 N. AN (not a number) M 70-0 1 -- - 1 Denormalized (fraction) M 20-0 0 --- 0 Normal number E70-0 M=X--X (Implicit normalized) and E \$1-1 Value format = (-1) \* 1.M \*2 E-bias (implicit) ✓The Good Pap

	MY CHOICE
Date:	The second second second
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Value = (-1)3 \* O.M \* 2-126 or -1022

(denormalized)

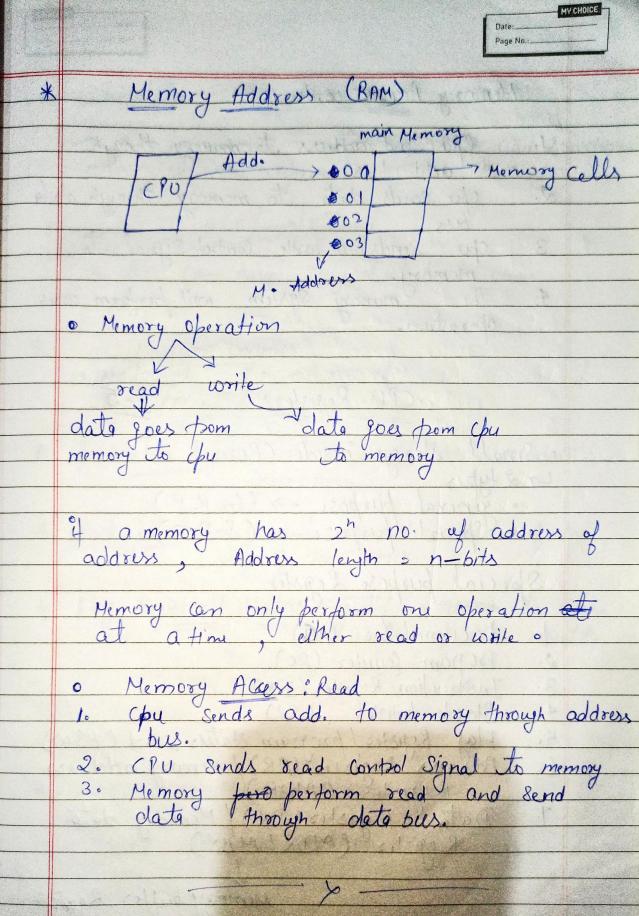
Sign double

Single precision precision Denormalized number A Small number that can not be normalized. Nin possible value of E = (0-1) 2 02 (1) po hence e = 1-127 = -136 if number => 0.000 - 0 11 => 'Implicit Normalization
128 times 0 1.1 \* 2 - 129 \* We con't normalize number
after -126. S[0-.0]00/1/ 0.00/1 x 2-126 M2 0011

\* Components of Computer o CPU-7 9t 18 the brain of Computer which perform bevery Single Control unit Arithmetic and logic unit · Memory -> Primary momory (Main) -> RAM, ROM Secondary memory (Auxillary) -> HDD. · I/O devices => Input D. Coutput D. of computer

of computer

of computer -> Adress bus, date bus, Control bus CPU date bus Memory & Control bus 1/0 devices individually all signals are signales are √The Good Pape



Memory Access: write Chu Send address to memory through
add bus
chu sends data to memory through da
bus chu Sends a write Control Signal to The memory System will perform will operation.