## · Problem 1 .

-If a microprocessor has a 32 bit address bus and a 16 bit data bus, also its registus are 16 bit registus

microfrecessor can address?

·Because we name a 32 bit address bus we can access 23? different caldresses. . The address space is 232 32 bit addresses.

this is a 32-bit microprocessor because the width of the address bus is 32 bits.

```
Problem 2 - Start
```

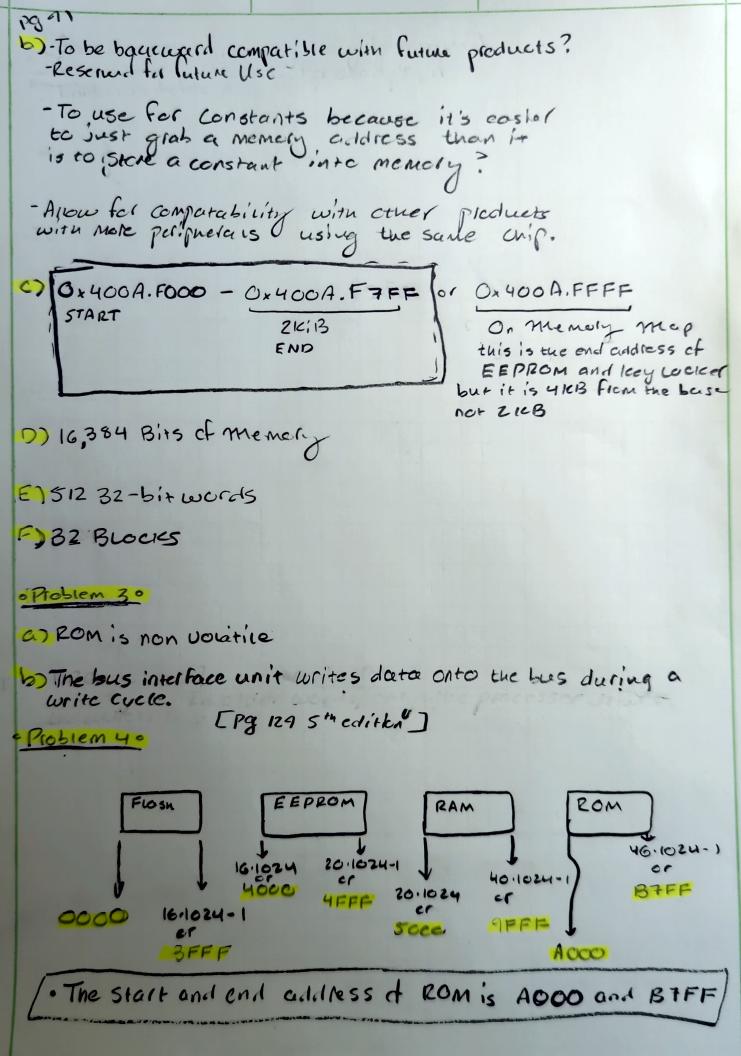
End - 0) IFFFFFF - 00040000 = IFFBFFFF - 5 536608767 1 DEFFFF - 33521663 ZIFF FFF - 2000 8000 : 3FFF FFF - 221 0 00 00 = 40003 FFF - 4000 2000 = IFFF 3191 4001FFFF - 4001 40 00 5 4915 BFFF 8191 40027FFF-40026000= IFFF 8 191 4002 BFFF - 4002 A000 = IFFF 3 TFFF-S 8191 4002 FFFF - 4003 E00 0 4003BFFF - 4003A000= 8101 IFFF-) ZFFF-3 4003FFFF - 4003DOCC = 12287 OFFF-S 4004 BFFF - 4004 2000 = 40959 GFFF -> 40057FFF - 4005 1000 = 28 G 7 1 4 OCA EFFF - 4005 ECCOS SOFF F 331775 400F8FFF - 40CBCCCCC 48 FFF -3 299007 400FBFFF - 400FA000 = IFFF 8191 DFFFFFFF - 44000000 = 9BFFFFFF -> 2617 245695 ECCODFFF - £0003000 = AFFF -45055 6003FFFF - 6000F000= 30 ff F -3 200703 FFFFFFF - FOO47CCCIFFBDFFF - 3536600575

602 (4.277.10.7)=31.977

ALLIESSES are reserved

2 2 31.977 Addicesses are reserved.

Only 67,665,939 are not reserved



## o Problem 5-

LDR RO, Base LDR RI, [RO, HOFFset] ORR RI, #020 STR RI, [RO, #Offset]

oHow on earth de we do this in 3 cines?!