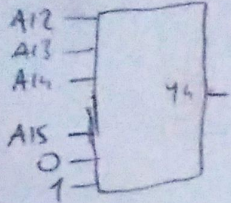
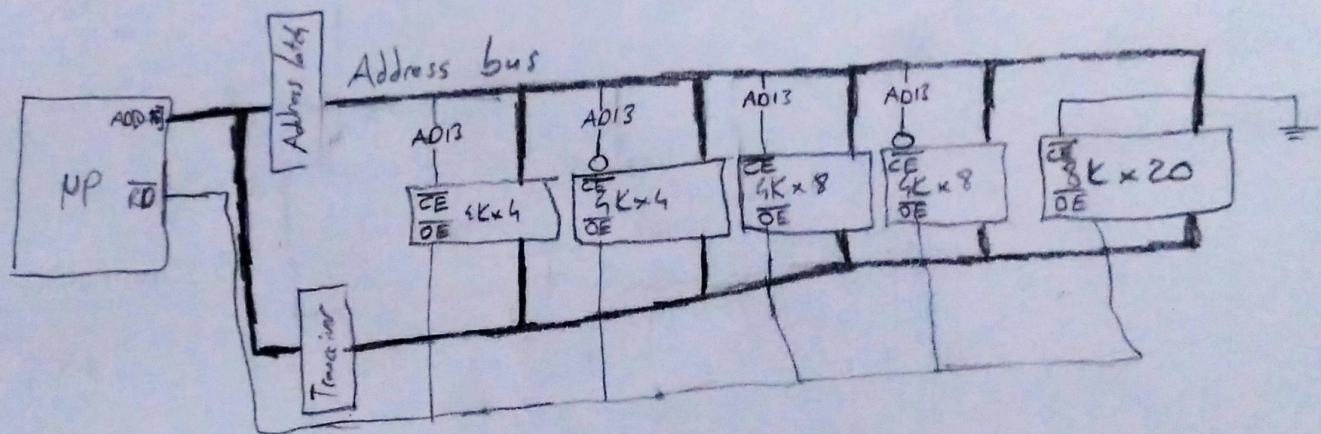


- 1) a-  A15 must be 0 for enable decoder.
A12-14 must be 100 for being Y4 is zero.
So position is 0x4000 - 0x4FFF

b- MOV register, memory → reading a data from this ROM.

- 2-) a) A15-A14 must be 0 for enable decoder 1
01 must be 0 for enabling decoder 2 thus A13 must be 1
001 → A15-13 range → 2000 - 3FFF
- b) A15, A14, A13 cannot change. We can change 13 bits. So we can store 2^{13} bytes.

3-)



There are 4Kx4 and 4Kx8 chips. Thus i used addressing to make a 8Kx8
Two 4Kx4 chip makes 8Kx4 and two 4Kx8 chip makes 8Kx8.
8Kx4 and 8Kx8 and 8Kx20 makes 8Kx32.

for 0xxx address left 4Kx4 and 4Kx8 will work and
for 1xxx address right 4Kx4 and 4Kx8 will work.