byte db = 8 bits → [0, 255] unsigned
→ [-128, 127] signed
word dw = 16 bits → [0, $2^{16}-1$] uns
Dword dd = 32 bits [-2^{15}, $2^{15}-1$] signed
Qword dq = 64 bits

mov EAX, 0
mov ECX, 0 } cleaning registers

mov is like copy

mul
- multiplication
- specific 1 operand
- calculate e implicit
- rezultatul e trimis la registrul x2

AL, BL, CL
mul CL
mul <OP> → mereu pune în EAX

imul - for signed variables

MUL <-> registers
<-> variable
- we multiply ner of the same type

→ Byte * Byte

MUL <OP> AX = AL * <OP>

→ WORD * WORD

AX * <OP> = DX : AX (lower half in AX, higher half in DX)

ex: mov AX, 2^{15}
mov BX, 2^{15}
mul BX

DX : AX = 2^{30}
1 ... 00...0

→ DWORD * DWORD

EAX * <OP> = EDX : EAX

Division

DIV <OP>

→ WORD / BYTE AX / <OP> = AL, AH (AL: cât, AH: rest)

→ DX:AX / <OP> = AX, DX

→ QWORD / DWORD EDX:EAX / <OP> = EAX, EDX