



## XCHG:

**EX:** XCHG register-register (8-bit)

```
MOV AL, 55h
MOV BL, 0A0h
XCHG AL, BL ; AL و BL تبديل القيم بين
```

**EX:** XCHG register-register (16-bit)

```
MOV DX, 1111h
MOV CX, 2222h
XCHG DX, CX ; DX و CX تبديل القيم بين
```

## mov:

**Ex:** MOV BX, 0210H  
MOV AL, BL

## Add: **Ex:**

```
MOV AL, 10h ; AL = 10
MOV BL, 05h ; BL = 5
ADD AL, BL ; AL = 10 + 5 = 15h
```

## Sub:

```
mov ax, 5 ; AX = 5
sub ax, 2 ; AX = AX - 2 → 3 = النتيجة
```

## Mul:

```
mov al, 5 ; AL = 5
mov bl, 3 ; BL = 3
mul bl ; AX = AL × BL = 15
```



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1<sup>st</sup> term –lab Lecture 1.

**Div:**

mov ax, 25 ; المقسوم = AX = 25  
mov bl, 4 ; المقسوم عليه = BL = 4  
div bl ; AL = 25/4 = 6 , AH = 1 (الباقى)

**inc:**

mov al, 9 ; AL = 9  
inc al ; AL = 10

**dec:**

mov bl, 8 ; BL = 8  
dec bl ; BL = 7



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