AAS (Ascii adjust after subtraction)

'9' - '3'

$AL = 39h - 33h$

$= 06h$

lower nibble of AL is $6 < 9$ so

no change will happen.

$AX = 0006h$

$AX = no$ change

'3' - '9'

$AL = 33h - 39h$

$= FAh$

0011 1110
0110 0000

lower nibble of AL is $A(LO) > 9$

so $AL = A - 6$

$= 1010 - 0110$

1010
0110
0100

$= 04h$

$AH = 0 - 1$

$0101 = 1$

$A = 1$

$= FF04h$

1010
0110
0100

1111 0100
0001
1110