

Lab 5

$$C = \left(\frac{5}{9} \right) * (F - 32)$$

Input a F^o
 mov F^o to a reg
 subtract reg with 32] $(F-32)$] *5
 multiply reg with 5
 prepare division — signext. for dividend
 mov divisor to a reg] $\div 9$
 idiv
 mov Q to C^o
 quotient

more detail

mov eax, FI ^{dw}
 sub eax, 32
 imul eax, 5

Cdg ————— edx ← eax signext.
 /9 [mov ebx, #9
 idiv ebx; edx:eax $\div ebx \Rightarrow (eax(Q))$
 mov C1, eax, ^{dw} Q

String concatenation

Label1 BYTE "Fahrenheit to temperatures : b", ϕ
 temp1 BYTE 11 dup(?), ϕ
~~temp2 BYTE 11 dup(?), ϕ~~
outString BYTE 250 dup(?), ϕ

