Name=thanjavuru Sumanth class=sy-6 roll no.=58

Code

global \_start

section .data

msg1 db "Enter 1st Value :" , 10

msg1len equ $- msg1

msg2 db "Enter 2nd value;" ,10

msg2len equ $- msg2

msg3 db "The multiplication is: "

msg3len equ $ - msg3

newline db 10

section .bss

val1 resb 2

val2 resb 2

result resb 2

section .text

\_start:

mov eax, 4

mov ebx, 1

mov ecx, msg1

mov edx, msg1len

int 0x80

mov eax, 3

mov ebx, 0

mov ecx, val1

mov edx, 2

int 0x80

mov eax, 4

mov ebx, 1

mov ecx, msg2

mov edx, msg2len

int 0x80

mov eax, 3

mov ebx, 0

mov ecx, val2

mov edx, 2

int 0x80

mov al, [val1]

sub al, '0' ; AL = val1 numeric

mov bl, [val2]

sub bl, '0' ; BL = val2 numeric

mul bl ; AL = val1 + val2

mov ah, 0

mov bl, 10

div bl ; AL = quotient (tens), AH = remainder (units)

add al, '0'

mov [result], al

add ah, '0'

mov [result+1], ah

mov eax, 4

mov ebx, 1

mov ecx, msg3

mov edx, msg3len

int 0x80

mov eax, 4

mov ebx, 1

mov ecx, result

mov edx, 2

int 0x80

mov eax, 4

mov ebx, 1

mov ecx, newline

mov edx, 1

int 0x80

mov eax, 1

xor ebx, ebx

int 0x80

