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TITLE: - Program to perform Multiplication using successive addition.
NAME:-
                                                     CLASS:-
BATCH:-
                                                     ROLL NO:-
***********************
section .data
     welmsg db 10, 'Multiplication using successive addition', 10
     welmsg len equ $-welmsg
     nummsql db 10, 'Enter First two digits of Hex Number::'
     nummsg1 len equ $-nummsg1
     nummsg2 db 10, 'Enter Second two digits of Hex Number::'
     nummsg2 len equ $-nummsg2
     resmsg db 10, 'Multiplication is ::'
     resmsg len equ $-resmsg
     blankmsg db 10,'',10
     blank len equ $-blankmsg
section .bss
     numascii resb 03
     multi1 resb 01
     resl resb 01
     resh resb 01
     dispbuff resb 04
%macro dispmsg 2
     mov eax,04
     mov ebx,01
     mov ecx, %1
     mov edx, %2
     int 80h
%endmacro
%macro accept 2
     mov eax, 03
     mov ebx, 0
     mov ecx, %1
     mov edx, %2
     int 80h
%endmacro
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section .text
     global start
     start:
     dispmsg welmsg, welmsg len
     dispmsg nummsg1, nummsg1 len
     accept numascii,3
     call packnum
     mov [multi1],bl
     dispmsg nummsg2, nummsg2_len
     accept numascii,3
     call packnum
    mov eax,00
addup:
     add eax, [multi1]
     dec bl
     jnz addup
     mov [resl],eax
     dispmsg resmsg,resmsg_len
     mov ebx, [resl]
     call disp16 proc
     dispmsg blankmsg, blank len
    mov eax,01 ;Exit
    mov ebx,00
     int 80h
packnum:
    mov bl,0
    mov ecx,02
    mov esi, numascii
up1:
     rol bl,04
    mov al,[esi]
     cmp al,39h
     jbe skip1
     sub al,07h
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skip1: sub al,30h
    add bl,al
    inc esi
    loop up1
    ret
disp16 proc:
    mov ecx, 4
    mov edi, dispbuff
dup1:
    rol bx,4
    mov al, bl
    and al,0fh
    cmp al,09
    jbe dskip
    add al,07h
dskip: add al,30h
    mov [edi], al
    inc edi
    loop dup1
    dispmsg dispbuff,4
    ret
    admin@oomplab:~$ nasm -f elf64 -o Pract6a.o Pract6a.nasm
    admin@oomplab:~$ ld -o Pract6a Pract6a.o
    admin@oomplab:~$ ./Pract6a
      Multiplication using successive addition
      Enter First two digits of Hex Number::05
      Enter Second two digits of Hex Number::05
      Multiplication is ::0019
     admin@oomplab:~$
```