```
%macro print 2
mov rax,01
mov rdi,01
mov rsi,%1
mov rdx,%2
syscall
%endmacro

%macro read 2
mov rax,00
mov rdi,00
mov rsi,%1
mov rdx,%2
syscall
%endmacro


section .data
n1 dq 04h
n2 dq 02h
new db 0xA

t1 db "MENU"
l1 equ $-t1
print new,1
t2 db "1.ADDITION"
l2 equ $-t2
print new,1
t3 db "2.SUBTRACTION"
l3 equ $-t3
print new,1
t4 db "3.MULTIPLICATION"
l4 equ $-t4
print new,1
t5 db "4.DIVISION"
l5 equ $-t5
print new,1
t7 db "5.EXIT"
l7 equ $-t7
print new,1
t6 db "Enter your choice: "
l6 equ $-t6
print new,1



section .bss
result resb 2
choice resb 2



section .text
global _start
```

```
_start:


menu:
print new,1
print t1,l1
print new,1
print t2,l2
print new,1
print t3,l3
print new,1
print t4,l4
print new,1
print t5,l5
print new,1
print t7,l7
print new,1
print t6,l6
print new,1

read choice,2
print new,1

cmp byte[choice],31h
je addition


cmp byte[choice],32h
je subtraction

cmp byte[choice],33h
je multiplication

cmp byte[choice],34h
je division

cmp byte[choice],35h
je exit

addition:
call Addition
jmp menu

subtraction:
call Subtraction
jmp menu

multiplication:
call Multiplication
jmp menu


division:
call Division
jmp menu
```

```
exit:
mov rax,60
mov rdi,00
syscall

HtoA:
mov rsi,result
mov cl,16
_ll:
rol al,04
mov bl,al
and bl,0Fh
cmp bl,09h
jle _ll1
add bl,07h
_ll1:
ADD bl,30H
mov byte[rsi],bl
inc rsi
dec cl
jnz _ll
print result,2
print new,1
ret

Addition:
mov rax,qword[n1]
mov rbx,qword[n2]
add rax,rbx
call HtoA
ret


Subtraction:
mov rax,qword[n1]
mov rbx,qword[n2]
sub rax,rbx
call HtoA
ret

Multiplication:
mov rax,qword[n1]
mov rbx,qword[n2]
mul rbx
push rax
mov rax,rdx
call HtoA
pop rax
call HtoA
ret

Division:
xor rdx,rdx
```

```
mov rax,qword[n1]
mov rbx,qword[n2]
div rbx
push rdx
call HtoA
pop rdx
mov rax,rdx
call HtoA
ret
```