

[org 0x0100]

jmp start  
multiplicand: db 13  
multiplier: db 5  
result: db 0

multiply:

checkbit:  
shr dl, 1  
jnc skip  
add [result], bl

skip: shl bl, 1  
sub cl, 1  
jne checkbit

ret

start:

mov cl, 4  
mov bl, [multiplicand]  
mov dl, [multiplier]

call multiply

mov ax, 0x4c00  
int 0x21  
[org 0x0100]  
imp start num: db 10  
funl:

sub c1,1  
cmp cl,1 iz end  
loop:  
;ax multiplied by cx  
mov ch, 4; initialize bit count to four  
mov bl, al; load multiplicand in bl  
mov dl, cl; load multiplier in di checkbit:  
shr d1, 1; move right most bit in carry inc skip;  
skip addition if bit is zero add al, b1; accumulate result skip:  
shl b1, 1; shift multiplicand left dec ch; decrement bit count inz checkbit  
sub cl,1  
cmp cl, 1 inz loop  
end:  
ret

start:  
mov c1, [num] mov al, [num] call funl  
mov ax, 0x4c00  
int 0x21