8-Bit Multiplication:

asm Code:

```
and bh, 0f0h
Data segment
    msg db 0dh,0ah,"Enter first number: $"
                                                    ror bh, 4
    msg1 db 0dh,0ah,"Enter second number: $"
                                                    call AsciiConv
    result db 0dh,0ah,"The Result is: $"
                                                    mov dl,bh
Data ends
                                                    mov ah,02h
                                                    int 21h
Code segment
                                                    and ch, 0fh
    assume CS:Code,DS:Data
                                                    mov bh, ch
                                                    call AsciiConv
start:
                                                    mov dl,bh
    mov ax, Data
                                                    mov ah,02h
    mov DS,ax
                                                    int 21h
    mov dx, offset msg
                                                    and bl, 0f0h
    mov ah, 09h
                                                    ror bl, 4
                                                    mov bh, bl
    int 21h
                                                    call AsciiConv
    mov ah, 01h
    int 21h
                                                    mov dl,bh
    sub al, 30h
                                                    mov ah,02h
    mov bl, al
                                                    int 21h
    rol bl, 4
                                                    and cl, 0fh
    mov ah, 01h
                                                    mov bh, cl
    int 21h
                                                    call AsciiConv
    sub al, 30h
                                                    mov dl,bh
    add al, bl
                                                    mov ah,02h
    mov cl, al
                                                    int 21h
    mov dx, offset msg1
                                                    mov ah,4ch
    mov ah, 09h
                                                    int 21h
    int 21h
    mov ah, 01h
                                                    AsciiConv proc
    int 21h
                                                        cmp bh,0ah
    sub al, 30h
                                                        jc skip
    mov bl, al
                                                        add bh,07h
    rol bl, 4
                                                        skip: add bh,30h
    mov ah, 01h
                                                        ret
    int 21h
                                                        endp
    sub al, 30h
                                                Code ends
    add al, bl
                                                end start
    mul cl ;--Multiplication
    mov cx, ax
    mov bx, ax
    mov dx, offset result
    mov ah,09h
    int 21h
```

Output:

D:\>test

Enter first number: 12 Enter second number: 04

The Result is: 0048

D:\>test

Enter first number: 90 Enter second number: 26

The Result is: 1560

D: N>