نمونه‌ای از عملیات ریاضی مستقیم روی اعداد دهدهی اسکی (جواد راستی - درس زبان اسمبلی و برنامه‌سازی سیستم)

```
.MODEL   SMALL
.STACK   200

.DATA

 N1   DB   "7811"
 N2   DB   "3462"

ADD_RESULT DB 5   DUP(?),10,13,'$'

SUB_RESULT DB 4   DUP(?),10,13,'$'
SUB_ERROR  DB  "N1 < N2$"

 N          DB    "3698"
 MULT     DB    "4"
 DIVI       DB     "7"

MUL_RESULT DB 5   DUP(?),10,13,'$'
DIV_RESULT DB  4   DUP(?),10,13,'$'

.CODE
MAIN   PROC   FAR

 MOV   AX,@DATA
 MOV   DS,AX

;ADD_RESULT<- N1 + N2

 MOV   CX,4
 MOV   SI,3
 CLC

AGAIN1:
 MOV   AH,0
 MOV   AL,N1[SI]
 ADC    AL,N2[SI]
 AAA
 MOV  ADD_RESULT[SI+1],AL
 DEC      SI
 LOOP   AGAIN1

 MOV   ADD_RESULT[0],AH

 MOV   CX,5
 MOV   SI,0

NEXT1:
 ADD   ADD_RESULT[SI],48
 INC     SI
 LOOP  NEXT1

 MOV   AH,09H
 LEA     DX,ADD_RESULT
 INT      21H

;SUB_RESULT <= N1 – N2

 MOV   CX,4
 MOV   SI,3
 CLC

AGAIN2:
 MOV   AH,01
 MOV   AL,N1[SI]
 SBB    AL,N2[SI]
 AAS
 MOV    SUB_RESULT[SI],AL
 DEC     SI
 LOOP   AGAIN2

 CMP   AH,0
 JNE     DISPLAY

 MOV   AH,09
 LEA     DX,SUB_ERROR
 INT      21H

DISPLAY:
 MOV   CX,4
 MOV   SI,0

NEXT2:
 ADD   SUB_RESULT[SI],48
 INC     SI
 LOOP   NEXT2

 MOV   AH,09H
 LEA     DX,SUB_RESULT
 INT      21H

;////////////////////////////////////////////
;MUL_RESULT <= N * MULT

MOV   CX,4
MOV   SI,3
SUB     MULT,48

AGAIN3:
 MOV   AH,0
 MOV   AL,N[SI]
 SUB    AL,48
 MUL    MULT
 AAM
ADC AL,MUL_RESULT[SI+1]
 AAA
 MOV MUL_RESULT[SI+1],AL
 MOV   MUL_RESULT[SI],AH
 DEC     SI
 LOOP   AGAIN3

MOV   CX,5
 MOV   SI,0

NEXT3:
 ADD   MUL_RESULT[SI],48
 INC     SI
 LOOP   NEXT3

 MOV    AH,09H
 LEA     DX,MUL_RESULT
 INT      21H

;////////////////////////////////
;DIV_RESULT <= N / DIVI

 MOV   AH,0
 MOV   SI,0
 MOV   CX,4
 SUB     DIVI,48

AGAIN4:
 MOV   AL,N[SI]
 SUB    AL,48
 AAD
 DIV     DIVI
 MOV   DIV_RESULT[SI],AL
 INC     SI
 LOOP   AGAIN4

 MOV   CX,4
 MOV   SI,0

NEXT4:
 ADD   DIV_RESULT[SI],48
 INC     SI
 LOOP  NEXT4

 MOV   AH,09H
 LEA     DX,DIV_RESULT
 INT      21H

. EXIT

MAIN   ENDP
END   MAIN
```