```
.MODEL SMALL
.STACK 100H
.DATA
    MSGA DB 'Number of Inputs(max 5 digits): $'
    MSGB DB 'Enter Number: $'
    MSGC DB 'Result: $'
    TEMP DW ?
    COUNT DW ?
    RESULT DW 0

.CODE
MAIN PROC
    MOV AX, @DATA
    MOV DS, AX

    LEA DX, MSGA            ;Print 'Number of Inputs:'
    MOV AH,9
    INT 21H

GET_INPUT:
    MOV AH,1
    MOV BX,0
    INT 21H

    CMP AL,0DH
    JE END_INPUT            ;If Enter

    INER_LOOP_1:
        MOV AH,0            ;Use full 16 bits of AX
        SUB AX,48

        MOV TEMP,AX
        MOV AX,10
        MUL BX              ;AX = AX*BX
        MOV BX,AX
        ADD BX,TEMP

    MOV AH,1                ;Input new digit
    INT 21H
    CMP AL,0DH
    JNE INER_LOOP_1         ;If Enter

    END_INPUT:
        MOV COUNT,BX

    LEA DX, MSGB            ;Print 'Enter Number'
    MOV AH,9
    INT 21H

    MOV AH,2
    MOV DL,0DH
    INT 21H                 ;New line
    MOV DL,0AH
    INT 21H

    MOV DX,0
    MOV TEMP,0

OUT_LOOP:
    MOV AH,1
    MOV BX,0
    INT 21H

    CMP AL,0DH
    JE LAST_INPUT           ;If Enter
```

```
        INER_LOOP_2:
            MOV AH,0            ;Use full 16 bits of AX
            SUB AX,48

            MOV TEMP,AX
            MOV AX,10
            MUL BX              ;AX = AX*BX
            MOV BX,AX
            ADD BX,TEMP

        MOV AH,1                ;Input new digit
        INT 21H
        CMP AL,0DH
        JNE INER_LOOP_2         ;If Enter

        LAST_INPUT:
            ADD RESULT,BX
            DEC COUNT
            CMP COUNT,0
            JNE OUT_LOOP

    PRINT_START:
        LEA DX, MSGC            ;Print 'Result:'
        MOV AH,9
        INT 21H

        MOV CX,0                ;Or XOR CX,CX
        MOV AX,RESULT
        MOV BX,10

    STOR_STACK:
        MOV DX,0
        DIV BX                  ;AX = AX/BX
        PUSH DX                 ;Reminder(DX) in stack
        INC CX
        CMP AX,0
        JNE STOR_STACK

    PRINT:
        MOV AH,2
        POP DX
        ADD DL,48               ;Pop stack by DX and DX = DL
        INT 21H

        DEC CX
        CMP CX,0
        JNZ PRINT

        MOV AH,4CH
        INT 21H

    MAIN ENDP
        END MAIN
```