```
.MODEL SMALL
.STACK 100H
.DATA
    MSGA DB 'Input: $'
    MSGB DB 'Output: $'
    MSGC DB 13,10,'$'
    COUNT DW ?
    INPUT DW ?
    OUTPUT DW ?
    TEMP DW ?
.CODE
MAIN PROC
    MOV AX, @DATA
    MOV DS, AX
RAND_IO:
    LEA DX, MSGA
    MOV AH, 9
    INT 21H
    GET_INPUTS:
                                 ;Get Input
        MOV DX, 0
        MOV BX, 0
        MOV AH, 1
        INT 21H
        CMP AL, ODH
        JE END_INPUTS
        CONVERT_TO_NUM:
            AND AX,000FH
            MOV TEMP, AX
            MOV AX, 10
            MUL BX
            MOV BX, AX
            ADD BX, TEMP
        MOV AH, 1
        INT 21H
        CMP AL, ODH
        JNE CONVERT_TO_NUM
        END_INPUTS:
            MOV INPUT, BX
            CMP INPUT, 0
            JLE END_PRO
    GET_RESULT:
        MOV COUNT, OH
        MOV CX, INPUT
        MOV AX, INPUT
        FOR_LOOP:
            ADD AX, COUNT
            MOV Output, AX
            DEC CX
            INC COUNT
            CMP CX, OH
            JE FOR_LOOP
    START_PRINT:
        LEA DX, MSGB
        MOV AH, 9
        INT 21H
```

```
MOV AX, OUTPUT
        MOV CX, 0
        MOV BX, 10
        STOR_RESULTS:
                                ;stor each digits in stack
            XOR DX, DX
            DIV BX
            PUSH DX
            INC CX
            CMP AX, 0
            JNE STOR_RESULTS
        PRINT_RESULTS:
                                ;print each digits from stack
            MOV AH, 2
            POP DX
            ADD DL, 48
            INT 21H
            LOOP PRINT_RESULTS
    NEW_INPUT:
        LEA DX, MSGC
        MOV AH, 9
        INT 21H
        INT 21H
        JMP RAND_IO
    END_PRO:
        MOV AH, 4CH
        INT 21H
MAIN ENDP
   END MAIN
```