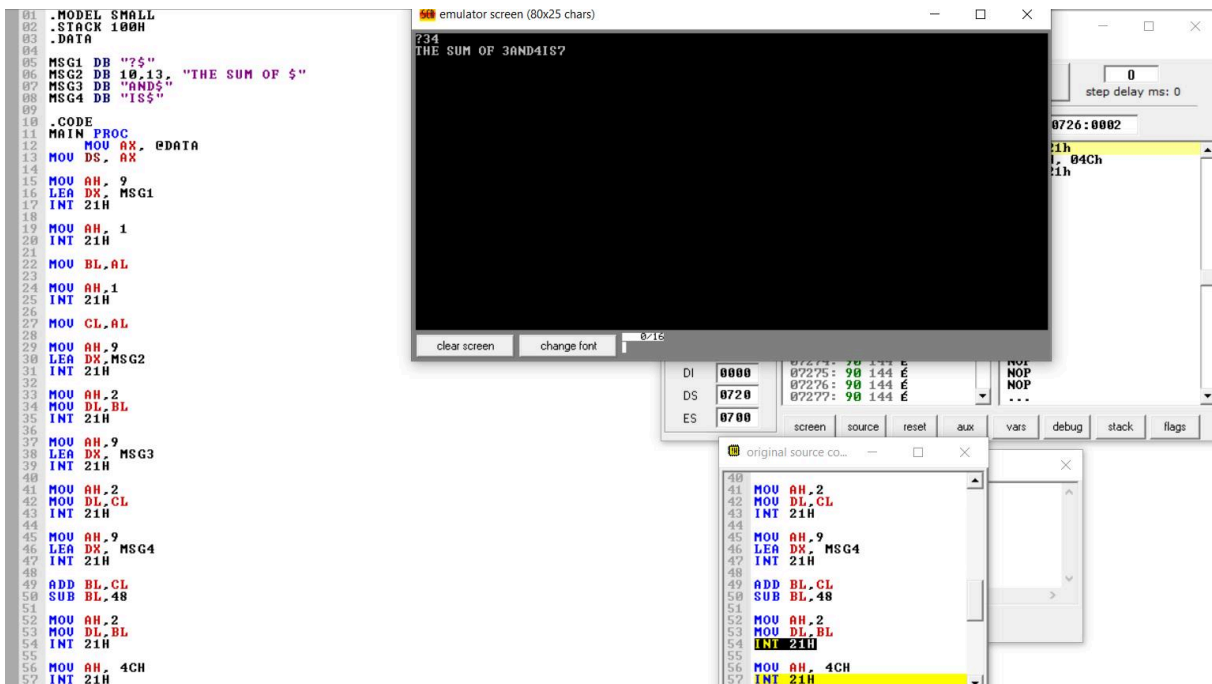


Program#1



Program#2

Single-Digit Decimal Adder with ASCII Conversion

```
; =====
; PURPOSE:
; This program takes two single-digit inputs from the user, calculates their
; sum, and prints the result. It includes logic to correctly handle both
; single-digit results (0-9) and two-digit results (10-18).
;
; WORKING STEPS:
; 1. Initialization: Setup the Data Segment so the CPU can access messages.
; 2. Input Phase: Prompt user for two digits, read them (INT 21H, AH=1), and
;    subtract 48 (ASCII conversion) to treat them as actual integers.
; 3. Processing: Perform addition (ADD) of the two values.
; 4. Output Phase: Compare the sum. If >= 10, print '1' manually and adjust
;    the remaining value, then print the final digit as an ASCII character.
; =====
```

