

```

1
2
3      ;* ----- *
4      ;* Name   : CLS
5      ;* Author : Gerard Wassink
6      ;* Date   : December 28, 2021
7      ;* Purpose: Just clear the screen and reset the terminal
8      ;* Versions:
9      ;*   0.1  : Initial code base
10     ;*
11     ;* ----- *
12     ;
13     ;* ----- *
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29     ;*
30     ;* ----- *
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32     ;* ----- *
33     ;
34     0100      START          ORG          0100H
35     ;
36     ; BDOS and BIOS addresses and functions
37     ;
38     0000 =     REBOOT        EQU          0000H          ; Warm reboot CP/M
39     0005 =     BDOS          EQU          0005H          ; BDOS address
40     0009 =     PRTSCR        EQU          0009H          ; Print $ terminated string function
41     ;
42     ;* ----- *
43     ;*                                     Terminal ESC codes
44     ;* ----- *
45     001B =     ESC           EQU          27
46     005B =     BRACKET      EQU          '['
47     0024 =     EOS          EQU          '$'
48     ;
49     ;* ----- *
50     ;*                                     Main line
51     ;* ----- *
52     0100 C5          PUSH     B              ; Save
53     0101 D5          PUSH     D              ; registers
54     0102 E5          PUSH     H              ; on the stack
55     ;
56     ;          Reset Screen
57     ;
58     0103 0E09        MVI      C,PRTSCR      ; Print string function in reg C
59     0105 112401      LXI      D,RESET      ; Data address in DE
60     0108 CD0500      CALL     BDOS          ; Call BDOS for print string function
61     ;
62     ;          Clear Screen
63     ;
64     010B 0E09        MVI      C,PRTSCR      ; Print string function in reg C
65     010D 111F01      LXI      D,CLS        ; Data address in DE
66     0110 CD0500      CALL     BDOS          ; Call BDOS for print string function
67     ;

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68      ;      Cursor home
69      ;
70      0113 0E09      MVI      C,PRTSCR      ; Print string function in reg C
71      0115 112901    LXI      D,HOMER      ; Data address in DE
72      0118 CD0500    CALL     BDOS          ; Call BDOS for print string function
73      ;
74      ;
75      ; Program end, restore registers and return
76      ;
77      011B E1        POP      H            ; Restore registers
78      011C D1        POP      D            ; from the
79      011D C1        POP      B            ; stack
80      ;
81      011E C9        RET                  ; Back to CP/M
82      ;
83      ;
84      ;* ----- *
85      ;*                                     DATA STORAGE *
86      ;* ----- *
87      ;
88      ; Text Strings
89      ;
90      011F 1B5B324A24CLS      DB      ESC, BRACKET, '2J', EOS
91      0124 1B5B306D24RESET    DB      ESC, BRACKET, '0m', EOS
92      0129 1B5B323B32HOMER    DB      ESC, BRACKET, '2;2H', EOS
93      ;
94      0130      ENDPROG      END          ; assembly stops here
95
```