```
 1
 2
 3                    ;* ------------------------------------------------------------------------------ *
 4                    ;* Name   : GAWLOGO
 5                    ;* Author : Gerard Wassink
 6                    ;* Date   : December 26, 2021
 7                    ;* Purpose: Logo for my machine
 8                    ;* Versions:
 9                    ;*   0.1  : Initial code base
10                    ;*
11                    ;* ------------------------------------------------------------------------------ *
12                    ;
13                    ;* ------------------------------------------------------------------------------ *
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30                    ;* ------------------------------------------------------------------------------ *
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32                    ;* ------------------------------------------------------------------------------ *
33                    ;
34     0100           START     ORG     0100H
35                    ;
36                    ; BDOS and BIOS addresses and functions
37                    ;
38     0005 =         BDOS      EQU     0005H               ; BDOS address
39     0009 =         PRTSCR    EQU     009H                ; Print $ terminated string function
40                    ;
41                    ;* ------------------------------------------------------------------------------ *
42                    ;*                                                        TERMINAL ATTRIBUTES
43                    ;* ------------------------------------------------------------------------------ *
44     001B =         ESC       EQU     27
45     005B =         BRACKET   EQU     '['
46     000D =         CR        EQU     13
47     000A =         LF        EQU     10
48     0024 =         EOS       EQU     '$'
49                    ;
50                    ;* ------------------------------------------------------------------------------ *
51                    ;*                                                                MAIN LINE *
52                    ;* ------------------------------------------------------------------------------ *
53     0100 C5        GAWMANDL  PUSH    B                   ; Save
54     0101 D5                  PUSH    D                   ;  registers
55     0102 E5                  PUSH    H                   ;   on the stack
56                    ;
57                    ; Print header lines
58                    ;
59     0103 0E09                MVI     C,PRTSCR            ; Print string function in reg C
60     0105 11B904              LXI     D,CYAN              ; Data address in DE
61     0108 CD0500              CALL    BDOS                ; Call BDOS for print string function
62                    ;
63     010B 0E09                MVI     C,PRTSCR            ; Print string function in reg C
64     010D 111F01              LXI     D,LOGO         ; Data address in DE
65     0110 CD0500              CALL    BDOS                ; Call BDOS for print string function
66                    ;
67                    ; Reset screen attributes
```

```
 68                                   ;
 69     0113 0E09                     MVI    C,PRTSCR          ; Print string function in reg C
 70     0115 11C504                   LXI    D,RESET           ; Data address in DE
 71     0118 CD0500                   CALL   BDOS              ; Call BDOS for print string function
 72                                   ;
 73                                   ; Program end, restore registers and return
 74                                   ;
 75     011B E1                       POP    H                 ; Restore registers
 76     011C D1                       POP    D                 ;   from the
 77     011D C1                       POP    B                 ;     stack
 78                                   ;
 79     011E C9                       RET                      ; Go back to caller
 80                                   ;
 81                      ;* ------------------------------------------------------------------------- *
 82                      ;*                                                              DATA STORAGE *
 83                      ;* ------------------------------------------------------------------------- *
 84                      ;
 85                      ; Text Strings
 86                      ;
 87     011F 2020202020LOGO DB    '                                                             ', CR, LF
 88     015A 20205F5F20     DB    '         _  __                                               ', CR, LF
 89     0195 207C20205F     DB    '  |   _ \                                                    ', CR, LF
 90     01D0 207C207C20     DB    '  | |   | |  ___   ___  _ __                                 ', CR, LF
 91     020B 207C207C20     DB    '  | |   | |/ _ \ / _ \| '/_/_ \                              ', CR, LF
 92     0246 207C207C5F     DB    '  | |_| | |  __/\ V / (_) | | |  __/                         ', CR, LF
 93     0281 207C5F5F5F     DB    '  |____/ \___| \_/ \___/|_| \___|                            ', CR, LF
 94     02BC 2020202020     DB    '                                                             ', CR, LF
 95     02F7 202020204E     DB    '     NCC-64088 - Akira class                                 ', CR, LF
 96     0332 2020202020     DB    '                                                             ', CR, LF
 97     036D 2020202052     DB    '     RC2014 - Retro Computing 2014                           ', CR, LF
 98     03A8 2020202048     DB    '     Home built Z80 computer                                 ', CR, LF
 99     03E3 2020202052     DB    '     Running Z-system CP/M                                   ', CR, LF
100     041E 2020202020     DB    '                                                             ', CR, LF
101     0459 2020202020     DB    '                                                             ', CR, LF
102     0494 24             DB    EOS
103                   ;
104                   ;
105     0495 1B5B33306DBLACK     DB     ESC, BRACKET, '30m', EOS
106     049B 1B5B33316DRED       DB     ESC, BRACKET, '31m', EOS
107     04A1 1B5B33326DGREEN     DB     ESC, BRACKET, '32m', EOS
108     04A7 1B5B33336DYELLOW    DB     ESC, BRACKET, '33m', EOS
109     04AD 1B5B33346DBLUE      DB     ESC, BRACKET, '34m', EOS
110     04B3 1B5B33356DMAGENTA   DB     ESC, BRACKET, '35m', EOS
111     04B9 1B5B33366DCYAN      DB     ESC, BRACKET, '36m', EOS
112     04BF 1B5B33376DWHITE     DB     ESC, BRACKET, '37m', EOS
113     04C5 1B5B306D24RESET     DB     ESC, BRACKET,  '0m', EOS
114                   ;
115                   ;
116     04CA 1B5B303B30TOPLEFT   DB     ESC, BRACKET, '0;0H', EOS
117                   ;
118                      ; Variables
119                   ;
120                   ;
121                   ;
122     04D1           ENDPROG    END                          ; assembly stops here
123
```