

These programs (Applesoft[®] version at left and Integer version below) show how it is possible to accept entry of lower case from the standard Apple keyboard without special software or hardware modifications. However, these programs are presented for pedagogic purposes only and are not meant to be a practical means of using lower case. It is recommended that the DICE support software be obtained for simplified use of lower case with BASIC programs.

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>LIST
100 REM LOWER CASE INPUT DEMO
110 REM 5-17-79
120 CALL -936: VTAB 5
130 LENS=100: REM LENGTH OF A$
140 REM CREATE A$, AND SET LOCA TO ITS LOCATION
150 DIM A$(LENS):LOCA=256* PEEK (205)+ PEEK (204)-LENS-10
160 REM CREATE C$, AND SET LOCC TO ITS LOCATION
170 DIM C$(1):LOCC=256* PEEK (205)+ PEEK (204)-11
180 UCF=0: REM UPPER CASE FLAG -- 0= LOWER CASE, 2=UPPER CASE, 1=ONE UPPER CASE CHAR
190 A$="THIS PROGRAM DEMONSTRATES THE USE OF": GOSUB 1000
200 A$=" THE LOWER CASE ADAPTER WITH INTEGER": GOSUB 1000
210 PRINT " BASIC. ": A$="THE SUBROUTINE AT LINE 1000": GOSUB 1000
220 A$=" CONVERTS AN ENTIRE STRING (EXCEPT FOR)": GOSUB 1000
230 A$=" THE FIRST CHARACTER) TO LOWER CASE. ": GOSUB 1000
240 PRINT : A$="LINES 500-600 GET CHARACTERS DIRECTLY": GOSUB 1000
250 A$=" FROM THE KEYBOARD, AND THE UPPER CASE": GOSUB 1000
260 A$=" FLAG DETERMINES UPPER OR LOWER CASE. ": GOSUB 1000
270 PRINT : PRINT "ESC": A$=" SWITCHES TO LOWER CASE, OR CAUSES THE NEXT CHARACTER ONLY TO BE UPPER CASE ": GOSUB 1000
280 PRINT : PRINT "ESC ESC": A$=" SWITCHES TO ALL UPPER CASE. ": GOSUB 1000
290 PRINT : A$="TRY IT NOW!": GOSUB 1000: PRINT
300 POKE LOCC,136:H$=C$: REM CTRL H
310 POKE LOCC,255:X$=C$: REM CURSOR

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500 FOR I=1 TO LENS
510 PRINT X$:H$: REM SHOW CURSOR
520 C= PEEK (-16384): IF C<128 OR C>223 THEN 520: REM GET INPUT CHARACTER
530 POKE -16368,0: REM CLEAR STROBE
540 IF C>159 THEN 620
550 REM CONTROL CHARACTER
560 IF C=136 THEN 600: REM BACKSPACE

570 IF C=141 THEN 600: REM RETURN
580 IF C>155 THEN 520: REM ESC (IGNORE OTHER CONTROL CHARACTERS)
590 UCF=UCF+1: IF UCF>2 THEN UCF=0: GOTO 520
600 IF I<2 THEN 520: PRINT " "; H$:H$: REM BACKSPACE
610 POKE LOCC,0:I=-1:A$(I)=C$: GOTO 510
620 IF C>191 AND UCF=0 THEN C=C+32: REM IF A LETTER OR SPECIAL SYMBOL AND IN LOWER CASE MODE, THEN CHANGE CHAR TO LOWER CASE
630 POKE LOCC,C: REM C$=CHR(C)
640 PRINT C$: REM ECHO CHAR
650 IF UCF=1 THEN UCF=0: REM IF SINGLE UPPER CASE SWITCH BACK TO LOWER CASE
660 A$(I)=C$: REM APPEND CHAR TO A$
670 NEXT I
680 PRINT " ": GOTO 500
1000 REM SUBROUTINE TO CONVERT AN ENTIRE STRING (STARTING AT CHAR #2) TO LOWER CASE
1010 REM CHANGE 'LOCA+1' IN NEXT LINE TO 'LOCA' TO CONVERT THE ENTIRE STRING TO LOWER CASE
1020 FOR I=LOCA+1 TO LOCA+LENA$
1030 A= PEEK (I): REM GET ONE CHAR
1040 IF A<193 OR A>218 THEN 1060
1050 POKE I,A+32: REM CHANGE LETTER TO LOWER CASE
1060 NEXT I
1070 PRINT A$: REM OPTIONAL
1080 RETURN

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