Data storage

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LYNX

THE LYNX BASIC has one major disadvantage when it comes to storing and retrieving information on to tape — it does not appear to have any real file-handling capabilities. This short program was written to overcome the problem and can be used as the basis for your own data-handling programs.

The program uses the LCTN function to enable data to be Poked into Data statements already contained at the end of the program. The data to be stored is entered in the form of a string — line 140. Then each individual character within the string is converted to its ASCII code and Poked into the Data statement at the line number specified after LCTN in line 170.

The program gives the option of saving the entire program or just the Data statements. If just the Data statements are required then the program will delete itself. The user will then have to save them in the usual way. When the information is required for use by another program the Append function can be used.

The beauty of the program is that the Data statements can be filled under program control and the operator does not need much experience of computers.

```
10 CLS
20 PRINT @ 30,60;"ENTER DATA......1"
30 PRINT @ 30,70;"RETRIEVE DATA...2"
40 PRINT @ 30,80;"EXIT PROGRAM....3"
50 PRINT @ 30,100;"ENTER OPTION..(1 TO 3)"
60 LET R$=GET$
70 IF R$="1" THEN GOTO 110
80 IF R$="2" THEN GOTO 520
90 IF R$="3" THEN END
100 GOTO 60
110 CLS
120 FOR N=0 TO 4
130 PRINT "ENTER DATA"
140 INPUT A$
150 FOR X=1 TO LEN(A$)
160 LET B$=MID$(A$,X,1)
170 POKE LCTN(10000+N)+X-1,ASC(B$)
180 NEXT X
190 NEXT N
200 CLS
210 PRINT @ 30,60;"SAVE DATA ONLY......1"
220 PRINT @ 30,70;"SAVE WHOLE PROGRAM...2"
230 PRINT @ 30,90;"ENTER OPTION..(1 OR 2)"
240 LET X$=GET$
250 IF X$="1" THEN GOTO 280
260 IF X$="2" THEN GOTO 450
270 GOTO 240
280 CLS
290 VDU 24
300 INK 2
310 PRINT "WARNING!"
320 INK 7
330 PRINT "THIS WILL ERASE PROGRAM."
340 VDU 25
350 PRINT @ 30,60;"CONTINUE...(Y OR N)"
360 LET X$=GET$
370 IF X$="Y" THEN GOTO 400
380 IF X$="N" THEN GOTO 10
390 GOTO 360
400 CLS
410 PRINT "TYPE ";CHR$(34);"SAVE ";CHR$(34);
    "FILENAME";CHR$(34);" ";CHR$(34)
420 PRINT "THEN PRESS PLAY AND RECORD ON TAPE,"
430 PRINT "PRESS ";CHR$(34);"RETURN";CHR$(34)
440 DEL 10,9999
450 CLS
460 VDU 24
470 PRINT "SAVING PROGRAM"
480 VDU 25,7
490 SAVE "PROGRAM"
500 VDU 7
510 GOTO 10
520 CLS
530 RESTORE
540 FOR X=1 TO 5
550 READ X$
560 PRINT X$
570 NEXT X
580 PRINT @ 10,200;"PRESS SPACE BAR TO CONTINUE"
590 LET X$=GET$
600 IF ASC(X$)=32 THEN GOTO 10
610 GOTO 590
9999 END
10000 DATA ##################
10001 DATA ##################
10002 DATA ##################
10003 DATA ##################
10004 DATA ##################
```