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.....
TITLE 'DEM03.ASM - CONSOLE READ DEMO, CHARACTER MODE'
XTEXT HDOS
ORG USERFWA
.....
STL 'WRITTEN 01/23/78'
.....

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.....
*** DEM03.ASM - CONSOLE INPUT DEMO, IN CHARACTER MODE.
*
* THIS IS A SIMPLE DEMONSTRATION PROGRAM THAT INPUTS CHARACTERS FROM
* THE CONSOLE, AND TYPES THEM BACK AGAIN.
*
* IF THE LAST CHARACTER YOU ENTERED CONTAINED A PERIOD (',.') THEN
* DEM03 EXITS TO HDOS AFTER TYPING THE CHARACTER.
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.....
*** TO RUN THIS PROGRAM, TYPE THE FOLLOWING:
* (DO NOT TYPE COMMENTS IN PARENTHESIS)
*
* >RUN ASM
* *DEM03,TT:=DEM03 (WRITES LISTING TO CONSOLE)
* >RUN DEM03
* HI, I'M DEM03! (DEM03 TYPES THIS)
* AABBCDD (YOU TYPE ABCD, DEM03 DUPLICATES IT)
* XXYX.. (YOU TYPE 'XY.', DEM03 ECHOS IT)
* > (DEM03 EXITS TO THE OPERATING SYSTEM)
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.....
STL 'MAIN PROGRAM'
EJECT START A NEW PAGE
ENTRY LXI H,DEM0A EXECUTION STARTS HERE
SCALL .PRINT PRINT 'HI!' MESSAGE
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.....
* SETUP CHARACTER MODE, SINCE HDOS WILL ECHO
* THE CHARACTERS, AND THEN DEM03 WILL TYPE THEM, CHARACTERS WILL
* BE DOUBLED ON THE SCREEN AS THEY ARE TYPED.
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.....
XRA A
MVI B,0010 CHARACTER MODE WITH ECHO
MVI C,2010
SCALL .CONSL
.....

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.....
* LOOP ECHOING LINES
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.....
ECHO SCALL .SCIN
JC ECHO NO CHARACTER YET
CPI '.'
JNE ECHO1 NOT PERIOD CHARACTER
STA ENDFLAG MAKE ENDFLAG NON-ZERO (A '.', IN FACT)
ECHO1 SCALL .SCOUT TYPE CHARACTER BACK
LDA ENDFLAG
ANA A
JZ ECHO STILL MORE TO GO
.....

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.....
* HAVE SEEN '.', WILL RETURN TO HDOS
.....

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.....
XRA A
SCALL .EXIT RETURN TO HDOS
.....

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.....
DEM0A DB 120,'HI, I'M DEM03!',2120
ENDFLAG DB 0 <<0 IF TO EXIT
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.....
END ENTRY
.....

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