

< H > < U > < G > < S > < O > < F > < T > < W > < A > < R > < E >

PROGRAM NAME: MORSE CODE/BAXTER

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00005 REM 2589 BYTES MORSE CODE/BAXTER
00010 REM - MORSE CODE PRACTICE PROGRAM -
00020 REM - USES H-8 SPEAKER TO PRODUCE THE TONES -
00025 REM - CONFIGURE HIGH MEMORY TO 22525 DECIMAL. - 16K MEMORY
NEEDED.
00030 GOSUB 2000:REM PRINT INSTRUCTIONS
00040 REM - LINE 50 SETS UP USER FUNCTION -
00050 POKE 22528,62:POKE 22530,195:POKE 22531,96:POKE 22532,2:POK
E 22533,191
00060 POKE 17267,000:POKE 17268,88:REM STARTING ADDRESS FOR USER
FUNCTION
00070 INPUT "1 IS FASTEST, 18 IS SLOWEST. SPEED?";D3:IF D3<1 OR D
3>18 THEN 70
00080 D2=D3*13+20:REM D2*2 IS THE DURATION OF DASH TONE IN MILL
ISECONDS.
00090 LINE INPUT "WANT A QUIZ?";L$:IF LEFT$(L$,1)="Y" THEN 1000
00100 PRINT :PRINT
00110 L=120
00120 LINE INPUT "MESSAGE:";A$:IF A$="SPEED" THEN 70
00130 IF A$="QUIZ" THEN 1000
00140 FOR I=1 TO LEN(A$)
00150 B$=MID$(A$,I,1)
00160 IF ASC(B$)>=ASC(" ") AND ASC(B$)<=ASC("Z") THEN GOSUB 10*AS
C(B$)-120
00170 IF D$="" THEN 70
00180 GOTO 800
00190 REM BELOW ARE DASH-DOT STRINGS
00200 D$=" ":RETURN
00210 D$="":RETURN
00220 D$=".-.-.":RETURN
00230 REM - NEXT FEW CHARACTERS NOT IN MORSE CODE - FALLS THROUGH
TO 310
00240 REM
00250 REM
00260 REM
00270 REM
00280 REM
00290 REM
00300 REM
```

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PROGRAM NAME: MORSE CODE/BAXTER < CONT'D >

00310 D\$="":RETURN
00320 D\$="---..--":RETURN
00330 D\$="":RETURN
00340 D\$=".-.-.-":RETURN
00350 D\$="-.-.":RETURN
00360 D\$="-----":RETURN
00370 D\$=" .-----":RETURN
00380 D\$=" ..----":RETURN
00390 D\$=" ...--":RETURN
00400 D\$="-":RETURN
00410 D\$="":RETURN
00420 D\$=" -....":RETURN
00430 D\$=" ---...":RETURN
00440 D\$=" ----..":RETURN
00450 D\$=" ----- .":RETURN
00460 D\$=" ----...":RETURN
00470 D\$=" -.-.- .":RETURN
00480 D\$=" ..-.":RETURN
00490 D\$=" --- .":RETURN
00500 D\$="":RETURN
00510 D\$=" ..--..":RETURN
00520 D\$="":RETURN
00530 D\$=" .-":RETURN
00540 D\$=" -...":RETURN
00550 D\$=" -.- .":RETURN
00560 D\$=" -..":RETURN
00570 D\$=" .":RETURN
00580 D\$=" ..- .":RETURN
00590 D\$=" --- .":RETURN
00600 D\$="":RETURN
00610 D\$=" ..":RETURN
00620 D\$=" .----":RETURN
00630 D\$=" -.-":RETURN
00640 D\$=" .-..":RETURN
00650 D\$=" ---":RETURN
00660 D\$=" - .":RETURN
00670 D\$=" ----":RETURN
00680 D\$=" .--- .":RETURN
00690 D\$=" ---.-":RETURN

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PROGRAM NAME: MORSE CODE/BAXTER < CONT'D > < CONT'D >

```
00700 D$=".-.";RETURN
00710 D$="...";RETURN
00720 D$="--";RETURN
00730 D$="..-";RETURN
00740 D$="...-";RETURN
00750 D$=".-.-";RETURN
00760 D$="-..-";RETURN
00770 D$="-.--";RETURN
00780 D$="--..";RETURN
00800 REM CONVERTS THE '-' OR "." TO DURATION OF THE TONE
00810 FOR J=1 TO LEN(D$)
00820 IF MID$(D$,J,1)="-" THEN T=D2:GOTO 850
00830 IF MID$(D$,J,1)<> "." THEN 870
00840 T=INT(D2/3)
00850 POKE 22529,T
00860 W=USR(T): REM SPEAKER NOW GIVES TONE
00870 PAUSE INT(D2/3)
00880 NEXT J:PAUSE D2:IF L>300 THEN 900
00890 NEXT I
00900 PRINT :PAUSE 2*D2:GOTO L
01000 REM - QUIZ ON MORSE CODE -
01005 REM (IF YOU WANT LETTERS ONLY, CHANGE: 1010 A=INT(RND(1)*26
+65)
01010 A=INT(RND(1)*43+48):IF A>59 AND A<65 THEN 1010:REM 59<A<65
NOT IN MORSE
01020 B$=CHR$(A):N=N+1
01030 GOSUB 10*A-120
01040 L=1050:GOTO 800
01050 LINE INPUT ;E$
01060 IF E$="QUIT" THEN 1100
01070 IF E$="GIVE" THEN PRINT B$:GOTO 1010
01080 IF E$=B$ THEN PRINT "RIGHT!":GOTO 1010
01090 PRINT "WRONG, TRY AGAIN.":Q=Q+1:N=N+1:GOTO 1040
01100 PRINT "YOU GOT";Q;"WRONG OUT OF";N
01110 PRINT
01120 N=0:Q=0:GOTO 100
02000 PRINT " THIS IS A MORSE CODE PRACTICE PROGRAM. FIRST YOU WI
LL BE ASKED"
02010 PRINT "HOW FAST A SPEED YOU WANT, THEN IF YOU WANT A QUIZ."
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