

# Morse Code Project

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10 REM*****
11 REM* C64 MORSE PRACTICE *
12 REM* PLUG A LAMP INTO *
13 REM* THE MAINS RELAY: *
14 REM* ENTER ANY ALPHA *
15 REM* STRING, AND IT *
16 REM* WILL BE FLASHED *
17 REM* AND BEEPED IN MORSE *
20 REM*****
100 GOSUB 2000: REM INIT
150 FOR L=0 TO 1 STEP 0
200 PRINT"ENTER YOUR MESSAGE"
220 PRINT"TYPE 'BYE' TO QUIT"
240 INPUT"MESSAGE ";MS$
300 ML=LEN(MS$):M$=""
320 FOR K=1 TO ML
330 C$=MID$(MS$,K,1)
340 IF C$="A"ANDC$<="Z"THEN M$=M$+C$
350 IF C$=" " THEN M$=M$+C$
360 NEXT K:IF M$="" THEN NEXT L
400 ML=LEN(M$)
420 FOR K=1 TO ML
440 CH$=MID$(M$,K,1):CH=ASC(CH$)-64
450 IF CH=-32 THEN FORPP=1TO6*DE:NEXTPP
460 IF CH<>-32 THEN GOSUB 3000
480 FOR PP=1 TO 3*DE:NEXT PP
500 NEXT K
550 IF M$="BYE" THEN L=1
600 NEXT L
900 END
2000 REM*****INIT*****
2100 DIM M$(26)
2110 DDR=56579:DATR=56577:POKE DDR,255
2120 DE=25:RX=2*DE
2130 V=54296:LF=54272:HF=54273:W=54276
2140 A=54277:S=54278
2150 FOR K=LF TO LF+24:POKEK,0:NEXT K
2160 POKEA,24:POKES,129:POKEV,15
2200 DATA ".-","...","-.-","-.-","-.-"
2220 DATA ".-","...","-.-","-.-","-.-"
2240 DATA ".-","...","-.-","-.-","-.-"
2260 DATA ".-","...","-.-","-.-","-.-"
2280 DATA ".-","...","-.-","-.-","-.-"
2300 DATA ".-","...","-.-","-.-","-.-"
2400 FOR K=1 TO 26:READ M$(K):NEXT K
2990 RETURN
3000 REM*****FLASH & BEEP*****
3050 PRINT CH$,M$(CH)
3100 N=LEN(M$(CH))
3200 FOR C=1 TO N
3220 D=DE-(ASC(MID$(M$(CH),C,1))-46)*RX
3240 ?DATREG=1 :REM FLASH
3250 POKE LF,172:POKE HF,57:REM BEEP
3260 POKE W,33:FOR PP=1 TO D:NEXT PP
3270 POKE W,32
3280 POKE LF,0:POKE HF,0 :REM UNBEEP
3290 POKE DATRG,0 :REM UNFLASH
3300 FOR PP=1 TO DE:NEXT PP
3320 NEXT C
3490 RETURN
    
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10 REM*****
11 REM* BBC MORSE PRACTICE *
12 REM* PLUG A LAMP INTO *
13 REM* THE MAINS RELAY: *
14 REM* ENTER ANY ALPHA *
15 REM* STRING, AND IT *
16 REM* WILL BE FLASHED *
17 REM* AND BEEPED IN MORSE *
20 REM*****
100 PROCinitialise
120 ALLOVER=FALSE
150 REPEAT
200 PRINT"ENTER YOUR MESSAGE"
220 PRINT"TYPE 'BYE' TO QUIT"
240 INPUT"MESSAGE",MS$
300 ML=LEN(MS$):M$=""
320 FOR K=1 TO ML
330 C$=MID$(MS$,K,1)
340 IF C$="A"ANDC$<="Z"THEN M$=M$+C$
350 IF C$=" " THEN M$=M$+C$
360 NEXT K:IF M$="" THEN UNTIL FALSE
400 ML=LEN(M$)
420 FOR K=1 TO ML
440 CH$=MID$(M$,K,1):CH=ASC(CH$)-64
450 IF CH=-32 THEN PROCdelay(6*DE*IX)
460 IF CH<>-32 THEN PROCbeepflash
480 PROCdelay(3*DE)
500 NEXT K
550 IF M$="BYE" THEN ALLOVER=TRUE
600 UNTIL ALLOVER
900 END
2000 REM*****INIT*****
2050 DEFPROCinitialise
2100 DIM M$(26)
2110 DDR=&FE62:DATR=&FE60:?DDR=255
2120 DE=3:RX=2*DE:IX=30
2200 DATA ".-","...","-.-","-.-","-.-"
2220 DATA ".-","...","-.-","-.-","-.-"
2240 DATA ".-","...","-.-","-.-","-.-"
2260 DATA ".-","...","-.-","-.-","-.-"
2280 DATA ".-","...","-.-","-.-","-.-"
2300 DATA ".-","...","-.-","-.-","-.-"
2400 FOR K=1 TO 26:READ M$(K):NEXT K
2990 ENDPROC
3000 REM*****FLASHANDBEEP*****
3020 DEFPROCbeepflash
3050 PRINT CH$,M$(CH)
3100 N=LEN(M$(CH))
3200 FOR C=1 TO N
3220 D=DE-(ASC(MID$(M$(CH),C,1))-46)*RX
3240 ?DATREG=1 :REM FLASH
3260 SOUND 1,-15,200,D :REM BEEP
3270 PROCdelay(IX*D)
3290 ?DATREG=0 :REM UNFLASH
3300 PROCdelay(DE*IX)
3320 NEXT C
3490 ENDPROC
4000 REM*****DELAY*****
4100 DEFPROCdelay(time)
4200 FOR DD=1 TO time:NEXT DD
4490 ENDPROC
    
```

# Morse Code

A	.-
B	...-
C	-.-.
D	.-..
E	..
F	..-.
G	-.-.-
H	....
I	..
J	.-.-.-
K	-.-.
L	.-...-
M	---
N	.-.
O	---
P	.-.-.
Q	-.-.-.
R	.-..
S	...-
T	.-
U	...-
V	...-
W	.-.-.-
X	.-.-.-
Y	.-.-.-
Z	---
.	...-
,	...-

