- Write a program to convert a Morse code message to its equivalent series of alphabetic characters. \* and – represent dots and dashes in the Morse code and / is used to delimit the Morse code characters. Repeat the input and the conversion.
- Enter a message (<Enter> to end): \* \* \* / - / \* \* \* -

The message is SOS

The message is APPLE

Enter a message (<Enter > to end): \* \* \* / - - - - / \* \* \* J

Can't decode this message.

Enter a message (<Enter > to end): \* \* \* //--- -

Can't decode this message.

Enter a message (<Enter > to end): \* \* \* / - - - / -

Can't decode this message.

Enter a message (<Enter > to end): / \* \* \* / - - - / \* \* \* - -

Can't decode this message.

Enter a message (<Enter > to end): ↓

CLIPS>

A	• -	H				V	
В		1		Р		W	•
C	- • - •	1	•	Q		X	- • • -
D	_••	K	- • -	R	• - •	Y	- •
E	•	1_		S		Z	• •
F	• • - •	М		T	_		
G	•	N	_ •	U	• • _		

(deftemplate conversion (slot character) (multislot morse-code)) (deftemplate translation (multislot string) (multislot code))

## (deffacts conversions

(conversion (character A) (morse-code \* -))

(conversion (character B) (morse-code - \* \* \*))

(conversion (character C) (morse-code - \* - \*))

(conversion (character D) (morse-code - \* \*))

(conversion (character E) (morse-code \*))

(conversion (character F) (morse-code \* \* - \*))

(conversion (character G) (morse-code - - \*)) (conversion (character H) (morse-code \* \* \* \*))

(conversion (character I) (morse-code \* \*))

(conversion (character J) (morse-code \* - - -))

(conversion (character K) (morse-code - \* -))

(conversion (character L) (morse-code \* - \* \*))

(conversion (character M) (morse-code - -))

(conversion (character N) (morse-code - \*))

(conversion (character O) (morse-code - - -))

(conversion (character P) (morse-code \* - - \*))

(conversion (character Q) (morse-code - - \* -))

(conversion (character R) (morse-code \* - \*))

(conversion (character S) (morse-code \* \* \*))

(conversion (character T) (morse-code -))

(conversion (character U) (morse-code \* \* -))

(conversion (character V) (morse-code \* \* \* -))

(conversion (character W) (morse-code \* - -))

(conversion (character X) (morse-code - \* \* -)) (conversion (character Y) (morse-code - \* - -))

(conversion (character Z) (morse-code - - \* \*)))

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```
<Hint:>
(defrule get-message
  (not (translation (string $?) (code $?)))
=>
  (printout t "Enter a message (<Enter> to end): ")
  (bind ?input (explode$ (readline)))
  (assert (translation (string) (code ?input))))

(defrule end
  (translation (string) (code))
=>
  (halt))

(halt) 指令可以結束CLIPS程式的執行,
(implode$ $?m) 可以將一個multifield欄位轉成為字串
```