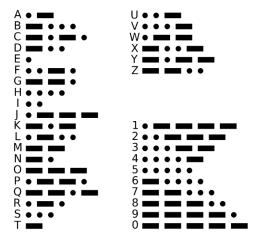
Computer Science II – Prepa Tec Campus Eugenio Garza Lagüera Activity 2: Morse Code

Morse code is a system that represents letters and numbers through intermittent signals. By using this code, we can represent letters, symbols, and numbers (UIT, 2021).

Problem 1: Build a Java program that allows a user to capture any phrase from the keyboard and convert it into a morse code sequence, then print it to the console. The phrase can be of any given length but must contain only letters and numbers. **Your solution must be built using arrays.**

Use the table below as a reference.



- a) Replace points with dots (.) and lines using forward slashes (/).
- b) To separate a letter from another, use a space ().
- c) Start every different word with a new line

Α	./
YO	1.// ///
HOLA	/// .//
HOLA CASA	/// .//
	/.///

Challenge problem! (20 extra points)

Build a Java program to perform the conversion from morse code to text. Begin by asking how many words will be captured. All inputs and outputs should be handled through the console.

Your solution must be built using arrays.

Example:

```
> How many words are you capturing?
> 2
> Palabra 1: .... /// ./.. ./
> Palabra 2: /./. ./ ... ./
Your translated text is: HOLA CASA
```

Bibliography

UIT . (2021, 1 17). *UIT* . Retrieved from Radiocommunication Sector of ITU: http://www.itu.int/dms_pubrec/itu-r/rec/m/R-REC-M.1677-1-200910-I!!PDF-E.pdf