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.

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Description automatically generated with medium confidence

1. Replace points with dots (.) and lines using forward slashes (/).
2. To separate a word from another, use a space ( ).
3. Start every different word with a new line

|  |  |
| --- | --- |
| **A** | **./** |
| **YO** | **/.// ///** |
| **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